

CERTIFICATE OF NEED APPLICATION

FOR

MRI REPLACEMENT

PATIENTS FIRST HEALTH CARE LLC

PROJECT NO. 4431 HS

**SUBMITTED TO
MISSOURI HEALTH FACILITIES REVIEW COMMITTEE**

October 28, 2009



Certificate of Need Program

NEW OR ADDITIONAL EQUIPMENT APPLICATION

Applicant's Completeness Checklist and Table of Contents

Project Name: Patients First Project No.: 4431 HSProject Description: Acquisition of Siemens 1.5 Magnetom EspreeDone Page N/A Description of CON Rulebook Contents**Divider I. Application Summary:**

1. 1. Applicant Identification and Certification (Form MO 580-1861).
 2. 2. Representative Registration (Form MO 580-1869).
 3. 3. Proposed Project Budget (Form MO 580-1863) and detail sheet.

Divider II. Proposal Description:

4. 1. Provide a complete detailed project description and include equipment bid quotes.
 5. 2. Provide a legible city or county map showing the exact location of the project.
 6. 3. Define the community to be served.
 7. 4. Provide 2015 population projections for the proposed geographic service area.
 8. 5. Provide other statistics to document the size and validity of any user-defined geographic service area.
 9. 6. Identify specific community problems or unmet needs the proposal would address.
 10. 7. Provide historical utilization for each of the past three years and utilization projections through the first three years of operation of the new equipment.
 11. 8. Provide the methods and assumptions used to project utilization.
 12. 9. Document that consumer needs and preferences have been included in planning this project and describe how consumers had an opportunity to provide input.
 13. 10. Provide copies of any petitions, letters of support or opposition received.

Divider III. Community Need Criteria and Standards:

14. 1. For new units address the need formula for the proposed geographic service area.
 15. 2. For new units, address the minimum annual utilization standard for the proposed geographic service area.
 16. 3. For any new unit where specific need and utilization standards are not listed, provide the methodology for determining need.
 17. 4. For additional units, document compliance with the optimal utilization standard, and if not achieved, provide documentation to justify the additional unit.
 18. 5. For evolving technology address the following:
- Medical effects as described and documented in published scientific literature;
- The degree to which the objectives of the technology have been met in practice;
- Any side effects, contraindications or environmental exposures;
- The relationships, if any, to existing preventive, diagnostic, therapeutic or management technologies and the effects on the existing technologies;
- Food and Drug Administration approval;
The need methodology used by this proposal in order to assess efficacy and cost impact of the proposal; and
 19. - The degree of partnership, if any, with other institutions for joint use and financing.

Divider IV. Financial Feasibility Review Criteria & Standards:

20. 1. Document that sufficient financing is available by providing a letter from a financial institution or an auditor's statement indicating that sufficient funds are available.
 21. 2. Provide Service-Specific Revenues and Expenses (Form MO 580-1865) projected through three (3) years beyond project completion.
 22. 3. Document how patient charges were derived.
 23. 4. Document responsiveness to the needs of the medically indigent.

Divider I. Application Summary:

- 1. Applicant Identification and Certification (Form MO 580-1861).**

Attached.

- 2. Representative Registration (Form 580-1869).**

Attached.

- 3. Proposed Project Budget (Form MO 580-1863) and detail sheet**

Attached.



Certificate of Need Program

APPLICANT IDENTIFICATION AND CERTIFICATION(must match the **Letter of Intent** for this project, without exception)**1. Project Location** (attach additional pages as necessary to identify multiple project sites)

Title of Proposed Project Acquisition of Siemens 1.5 Magnetom Espree	Project Number 4431 HS
Project Address (Street/City/State/Zip Code) 901 Patients First Drive Washington, MO 63090	County Franklin

2. Applicant Identification (Information must agree with previously submitted Letter of Intent)

List All Owner(s): List corporate entity	Address (Street/City/State/Zip Code)	Telephone Number
PFHC Medical Management, LLC	901 Patients First Drive, Washington, MO 63090	636-390-1400

List All Operator(s): Listed or organized	Address (Street/City/State/Zip Code)	Telephone Number
Patients First Health Care, LLC	901 Patients First Drive, Washington, MO 63090	636-390-1400

3. Ownership (Check applicable category)

<input type="checkbox"/> Nonprofit Corporation	<input type="checkbox"/> Individual	<input type="checkbox"/> City	<input type="checkbox"/> District
<input type="checkbox"/> Partnership	<input type="checkbox"/> Corporation	<input type="checkbox"/> County	<input checked="" type="checkbox"/> Other: LLC

4. Certification:

In submitting this project application, the applicant understands that:

- (A) The review will be made as to the community need for the proposed beds or equipment in this application;
- (B) In determining community need, the Missouri Health Facilities Review Committee (Committee) will consider all similar beds or equipment within;
- (C) The issuance of a Certificate of Need (CON) by the Committee depends on conformance with its Rules and CON statute;
- (D) A CON shall be subject to forfeiture for failure to incur an expenditure on any approved project six (6) months after the date of issuance, unless obligated or extended by the Committee for an additional six (6) months;
- (E) Notification will be provided to the CON Program staff if and when the project is abandoned; and
- (F) A CON, if issued, may not be transferred, relocated, or modified except with the consent of the Committee.

We certify the information and data in this application as accurate to the best of our knowledge and belief by our representative's signature below:

5. Authorized Contact Person (attach a Contact Person Correction Form if different from the letter of intent)

Name of Contact Person Richard D. Watters	Title Attorney	
Telephone Number 314-621-2939	Fax Number 314-621-6844	E-mail Address rdwatters@lasbjlbacl.com
Signature of Contact Person <i>Richard D. Watters</i>		Date of Signature 10-27-07



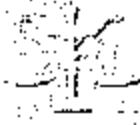
Certificate of Need Program

REPRESENTATIVE REGISTRATION

(A registration form must be completed for each project represented)

Project Name Acquisition of Siemens 1.5 Magnetom Espree		Number 4431 HS
(Please type or print legibly)		
Name of Representative Richard D. Watters	Title Attorney	
Firm/Corporation/Association of Representative (may be different from below, e.g., law firm, consultant, other) Lashley & Baer, P.C.	Telephone Number 314-621-2939	
Address (Street/City/State/Zip Code) 714 Locust St. Louis, MO 63101		
Who's interests are being represented? (If more than one, submit a separate Representative Registration Form for each.)		
Name of Individual/Agency/Corporation/Organization being Represented PFHC Medical Management, LLC	Telephone Number 636-390-1400	
Address (Street/City/State/Zip Code) 901 Patients First Drive Washington, MO 63090		
Check one. Do you:		Relationship to Project:
<input checked="" type="checkbox"/> Support	<input type="checkbox"/> None	
<input type="checkbox"/> Oppose	<input type="checkbox"/> Employee	
<input type="checkbox"/> Neutral	<input checked="" type="checkbox"/> Legal Counsel	
		<input type="checkbox"/> Consultant
		<input type="checkbox"/> Lobbyist
		<input type="checkbox"/> Other (explain): <hr/>
<p>I attest that to the best of my belief and knowledge the testimony and information presented by me is truthful, represents factual information, and is in compliance with §197.326.1 RSMo which says: Any person who is paid either as part of his normal employment or as a lobbyist to support or oppose any project before the health facilities review committee shall register as a lobbyist pursuant to chapter 105 RSMo, and shall also register with the staff of the health facilities review committee for every project in which such person has an interest and indicate whether such person supports or opposes the named project. The registration shall also include the names and addresses of any person, firm, corporation or association that the person registering represents in relation to the named project. Any person violating the provisions of this subsection shall be subject to the penalties specified in §105.478, RSMo.</p>		
Original Signature 	Date 10-27-09	

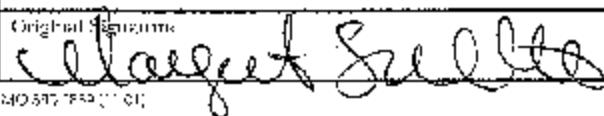
MO 2007-2008 (11-08)



Certificate of Need Program

REPRESENTATIVE REGISTRATION

(A registration form must be completed for each project represented)

Project Name Acquisition of Siemens 1.5 Magnetom Espree		Number 4431 HS
(Please type or print legibly)		
Name of Representative Margaret Seavotto	Title Attorney	
Firm/Company/Unit/Association of Representative (may be different from below, e.g., law firm, consultant, other) Lashly & Baer, P.C.	Telephone Number 314-621-2939	
Address (Street/City/State/Zip Code) 714 Locust St. Louis, MO 63101		
Who's interests are being represented? (If more than one, submit a separate Representative Registration Form for each.)		
Name of Individual/Agency/Corporation/Organization being Represented PFHC Medical Management, LLC	Telephone Number 636-390-1400	
Address (Street/City/State/Zip Code) 901 Patients First Drive Washington, MO 63090		
Check one. Do you:		Relationship to Project:
<input checked="" type="checkbox"/> Support <input type="checkbox"/> Oppose <input type="checkbox"/> Neutral		<input type="checkbox"/> None <input type="checkbox"/> Employee <input checked="" type="checkbox"/> Legal Counsel <input type="checkbox"/> Consultant <input type="checkbox"/> Lobbyist <input type="checkbox"/> Other (explain) _____
Other information: _____ _____ _____		
<p>I attest that to the best of my belief and knowledge the testimony and information presented by me is truthful, represents factual information, and is in compliance with §197.326.1 RSMo which says: Any person who is paid either as part of his normal employment or as a lobbyist to support or oppose any project before the health facilities review committee shall register as a lobbyist pursuant to chapter 105 RSMo, and shall also register with the staff of the health facilities review committee for every project in which such person has an interest and indicate whether such person supports or opposes the named project. The registration shall also include the names and addresses of any person, firm, corporation or association that the person registering represents in relation to the named project. Any person violating the provisions of this subsection shall be subject to the penalties specified in §105.478, RSMo.</p>		
Original Signature  MO 63177-002-001	Date 22 Oct. 2009	



Certificate of Need Program

PROPOSED PROJECT BUDGET

<u>Description</u>	<u>Dollars</u>
COSTS:[*]	
1. New Construction Costs ***	\$0
2. Renovation Costs **	<u>56,865</u>
3. Subtotal Construction Costs (#1 plus #2)	<u>\$56,865</u>
4. Architectural/Engineering Fees	\$0
5. Other Equipment (not in construction contract)	0
6. Major Medical Equipment	<u>1,277,092</u>
7. Land Acquisition Costs ***	0
8. Consultants' Fees/Legal Fees ***	0
9. Interest During Construction (net of interest earned) ***	0
10. Other Costs ****	0
#11. Subtotal Non-Construction Costs (sum of #4 through #10)	<u>\$1,277,092</u>
#12. Total Project Development Costs (#3 plus #11)	<u>\$1,333,957</u> **

FINANCING:

13. Unrestricted Funds	\$1,333,957
14. Bonds	0
15. Loans	0
16. Other Methods (specify)	0
#17. Total Project Financing (sum of #13 through #16)	<u>\$1,333,957</u> **

18. New Construction Total Square Footage	0
19. New Construction Costs Per Square Foot *****	0
20. Renovated Space Total Square Footage	0
21. Renovated Space Costs Per Square Foot *****	0

* Attach additional page(s) to provide details of how each line item was determined, including all methods and assumptions used.

** These amounts should be the same.

*** Capitalizable items to be recognized as capital expenditures after project completion.

**** Includes all Other Costs. The following other costs of financing; the value of existing lands, buildings and equipment not previously used for health care services, such as a renovated house converted to residential care, determined by original cost, fair market value, or appraised value; or the fair market value of any leased equipment or building, or the cost of beds to be purchased.

***** Divide new construction costs by total new construction square footage.

***** Divide renovation costs by total renovation square footage.

Proposed Project Budget Detail Sheet

2. Renovation Costs \$56,865 represents the cost to construct shielding for the MRI system. A quote from Paric for this shielding cost is attached.

6. Major Medical Equipment. \$1,277,092 represents the cost of the Siemens Espree MRI system. A purchase order is attached.



PARIC CORPORATION

1001 BOARDWALK SPRINGS PLACE
SUITE 220
D'FALION, MISSOURI 63366
TEL: 636-561-9600
FAX: 636-561-9601

October 10, 2009

Joe Gubbels
Patients First Medical Management
901 Patients First Drive
Washington, MO 63090

Re: Patients First Diagnostic Renovation
PARIC PROJECT #07019

Dear Mr. Gubbels,

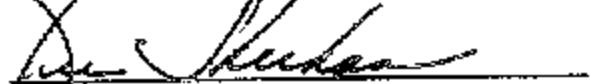
Following is the shielding cost for the proposed renovation at Patients First Diagnostic Area.

MRI Room 1017	\$ 56,865
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Please contact me if you have any questions or comments.

Sincerely,

PARIC CORPORATION



Jere Sheehan
Senior Project Manager

PURCHASE ORDER

PATIENTS FIRST MEDICAL MANAGEMENT
901 Patients First Drive
Washington, MO 63090
636.390.1400

To: SIEMENS MEDICAL P.O. Number: 20090901-3
Date: September 1, 2009
Requisitioned by: Bev Glensemeyer

Agrees to purchase the following:

1	Siemens MR Espreo per quote 1-RHWFB	\$1,272,892.00
1	Part 14413662 per quote 1-RHWFB	\$ 2,700.00
1	Part 08857828 per quote 1-RHWFB	\$ 1,500.00
	Total	\$1,277,092.00

Bev Glensemeyer
Bev Glensemeyer
Director of Operations

9-1-2009

Date

SIEMENS

Siemens Medical Solutions USA, Inc.
51 Valley Stream Parkway, Malvern, PA 19356
Fax: (866) 306-6685

SIEMENS REPRESENTATIVE
Peggy Pelikan

Customer Number: 0000032303

Date: 8/27/2009

PFHC MEDICAL MANAGEMENT, LLC
901 PATIENTS FIRST DRIVE
WASHINGTON, MO 63090

Siemens Medical Solutions USA, Inc. is pleased to submit the following quotation for the products and services described herein at the stated prices and terms, subject to your acceptance of the terms and conditions on the face and back hereof, and on any attachment hereto.

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Warranty Information	13
Detailed Technical Specifications	15

Proposal valid for 45 days

SIEMENS / NOVATION GB 2009 PROMOTIONAL OFFERING

Trade in value expires October 6, 2009

Confidentiality Agreement: This Quotation is strictly confidential and you agree that this information will be held in the strictest of confidence and not shared with any third parties, buying evaluation groups or anyone not directly employed by your facility.

Siemens & Novation Open Bore and Standard Bore MRI Contract #XR50062

- This group buy is effective June 1 – Sept. 30, 2009
- Contingent purchase orders (except State CON) are not acceptable
- All systems must be installed no later than December 31, 2010
- Valid for new MR systems and TIM Upgrades only

Out of Scope Rigging (OOS) costs as identified herein are estimated union labor costs. Siemens agrees to split equally with Customer the total OOS costs not to exceed \$10,560. Billing for OOS costs to Patients First shall occur after services are rendered and shall reflect the lesser of (i) actual total OOS costs incurred or (ii) estimated total OOS costs as quoted here.

This order is contingent on the customers' receipt of a Missouri Certificate of Need

Accepted and Agreed to by:

Siemens Medical Solutions USA, Inc.

By (sign): _____
Name: Peggy Pelikan
Title: Account Executive
Date: _____

PFHC MEDICAL MANAGEMENT, LLC

By (sign): Michael E. Rau, M.D.
Name: Michael E. Rau, M.D.
Title: Chairman
Date: 9/1/09

SIEMENS

Siemens Medical Solutions USA, Inc.
51 Valley Stream Parkway, Malvern, PA 19355
Fax: (866) 306-6685

SIEMENS REPRESENTATIVE
Peggy Pelikan

All pages of the signed proposal must be returned to Siemens to process the order - Thank you.

SIEMENS

Siemens Medical Solutions USA, Inc.
61 Valley Stream Parkway, Malvern, PA 19355
Fax: (866) 306-6685

SIEMENS REPRESENTATIVE
Peggy Pelikan

Quote Nr:	1-RHWFB Rev. 1
Terms of Payment:	00% Down, 90% Delivery, 10% Installation Free On Board: Destination
Purchasing Agreement:	Novation GB 2009 - MR
Novation GB 2009 - MR terms and conditions apply to Quote Nr 1-RHWFB	

MAGNETOM Espree

All items listed below are included for this system: (See Detailed Technical Specifications at end of Proposal.)

Qty	Part No.	Item Description
1	07534514	MAGNETOM Espree - System
1	144013650	T-class #Tim T-class is the next generation of trendsetting Tim-based MRI scanners. The new T-class systems are available for the first time in MRI, Continuous Table move examinations, syngo Tim CT, syngo TimCT. The trendsetting application syngo TimCT with Continuous Table move powered by Tim, enables MR to evolve from stepping to continuous table movement during the scan. T-class systems come standard with the Continuous Table move localizer, syngo Tim Workflow Suite. The Tim Workflow Suite includes a set of tools that provide a versatile workflow solution at the scanner, e.g. for MR measurement and processing. In addition, the Tim Workflow Suite includes InLine Diffusion for automated ADC mapping and REVEAL - body diffusion imaging. Tim Whole Body Suite. Featuring the Tim Whole Body Suite, T-class enables head-to-toe imaging without compromise. T-class delivers the full extended range of the unique telescopic patient table drive for a total FoV of up to 205 cm (8' 0") (system dependent) with full local coil image quality. In addition the T-class package also includes all T-class standard components: - 3D Distortion Correction - MPSS - ImageFit SW - PhoenixZP - DICOM Study Split
1	14401446	Tim [76x18] Z-engine #Es Tim [76x18] Z-engine performance level Tim [76x18] is Total imaging matrix with 76 seamlessly integrated coil elements, combinable to 18 RF channels. It is for demanding high end applications and optimized throughput. Tim [76x18] has flexibility in Parallel Imaging, PAT factors up to 4 (one direction) or 12 (in two directions, optional) help speed acquisitions. Maximum SNR is ensured through the new matrix coil technology. Z-engine Gradient System. The Z-engine is designed combining high performance while minimizing acoustic noise.
1	14401447	Label Tim [76x18] #Es Label on the front cover displaying the Tim level of the system.
1	00484672	PC Keyboard US english #Av Standard PC keyboard with 101 keys.
1	14401434	Cover Satin White #Es The color of the main face plate cover with integrated control panel and table display is Translucent "Satin". The table elevator cover and adjoining upper left cover are presented in an optically appealing Satin White design.
1	14401451	Standard Patient Matrix Table #Es The patient table is mounted directly to the magnet assembly. The table can support up to 250 kg (550 lbs) patients with unrestricted vertical and horizontal movement.

SIEMENS

Siemens Medical Solutions USA, Inc.

51 Valley Stream Parkway, Malvern, PA 19355
Fax. (886) 306-6685

SIEMENS REPRESENTATIVE

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Qty	Part No.	Item Description
1	14407344	4-channel Flex Coil Pkg #Tim (1.5 sys) The 4-channel Flex Coil Kit offers a set of flexible coils with the capability for parallel imaging for easy and quick examinations of a large variety of different anatomies. The following items are included: - 4-channel Flex coil, large - Wrap-around coil made of soft and flexible material - Capable of parallel imaging with iPAT factors up to 2 (PAT ² up to 4) - For applications such as imaging of large regions, e.g. medium to large shoulders, hip and knee - 1-channel Flex coil, small - Wrap-around coil made of soft and flexible material - Capable of parallel imaging with iPAT factors up to 2 (PAT ² up to 4) - For applications such as imaging of small regions, e.g. small to medium shoulders, wrist, elbow and ankle - 4-channel Flex Coil Interface - For connection of e.g. the large or small 4-channel Flex coil
1	08464989	PMU Bluetooth Physio Control #Av Physiological Measurement Unit (PMU) - Wireless Physio Control for wireless triggering, synchronizes the measurement with the physiological cycles of cardiac and/or respiratory motion. Wireless technology for all sensors allows fast and easy patient set-up and comfort, and robust cardiac or respiratory signal transmission as it eliminates the need to attach cables to the patient. The Wireless Physio Control contains wireless VCG, respiration and pulse sensors and a charging station as all sensors are powered by rechargeable batteries.
1	14402526	BLADE #Tim Motion and flow insensitive multi-slice Turbo Spin Echo (TSE) sequence for all body regions with optional inter-slice motion correction.
1	08464815	Body Matrix Coil #Av The new multi-element Matrix coil technology is an essential part supplementing the most innovative Total Imaging matrix. Matrix coils have multiple receive coil elements that can be clustered in groups. Each receive coil element is equipped with a low noise preamplifier to maximize signal-to-noise ratio. The Body Matrix Coil features: - RF-element design with 6 integrated preamplifiers, with 2 clusters of 3 elements each - Operated depending on the Matrix Coil Mode as a 2-channel coil (CP Mode), 4-channel coil (Dual Mode) or 6-channel coil (Triple Mode) - Operates in an integrated fashion with the Spine Matrix coil (2 rings of 6 elements each = 12-element design) - Can be combined with further Body Matrix coils for larger coverage - No coil tuning - iPAT-compatible Applications: - Thorax (incl. heart) - Abdomen - Pelvis - Hip - Can be combined with: - Head Matrix coil - Neck Matrix coil - Spine Matrix coil - Additional Body Matrix coils (typically 2-3 in total) for additional anatomical coverage - PA Matrix coil (Peripheral Angio Matrix optional) - All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large) - CP Head Array coil - Endorectal coils
1	08484823	PA Matrix Coil #Av The new multi-element Matrix coil technology is an essential part supplementing the most innovative Total Imaging matrix. Matrix coils have multiple receive coil elements that can be clustered in groups. Each receive coil element is equipped with a low noise preamplifier to maximize signal-to-noise ratio. The PA Matrix Coil features: - RF-element design with 16 integrated preamplifiers, in 8 CP pairs, i. e. 4 levels with 2 CP elements each - Operates in an integrated fashion with the Body Matrix Coils and Spine Matrix Coil and for Whole Body examinations also with the Head and Neck Matrix Coil (for Whole-Body examinations the optional Tim Whole Body Suite is required) - Can be utilized Head and Feet First - Both legs are independently covered with coil elements, maximizing the coil filling factor and the signal-to-noise ratio - No coil tuning - Includes special non-ferromagnetic coil cart for safe, user-friendly storage - iPAT-compatible Applications: - High-resolution angiography of both legs incl. pelvis with highest signal-to-noise ratio - Visualization of the iliac arteries and aorta - Can be combined with: - Head Matrix Coil - Neck Matrix Coil - Spine Matrix Coil - Body Matrix Coils (up to 3) - All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)
1	14405244	Shoulder Array Coil #Es This iPAT compatible coil for examinations of the left or right shoulder consists of a base plate and two receive array coil attachments available in different sizes, these will be attached and can be relocated on the basis plate.
1	14407281	MR Workplace Container, 50cm 50 cm wide extra case for the syngo host computer with sliding front door to allow change of storage media (CD/DVD/USB)
1	14401443	Cable Set syngo 11/9 #Es Cable length inside the cabin 11 m, cable length outside the cabin 9 m. Inclusive Ethernet Twisted Pair Adapter and 10 m cable.
1	14401493	Venting Kit #Av,Es Overpressure valve as a transport safety device for cold delivery of the magnet by air and sea freight. Designed for: - atmospheric pressure conditions at sea level during land and sea transport, as well as - low pressure during air transport.

SIEMENS

Siemens Medical Solutions USA, Inc.
61 Valley Stream Parkway, Malvern, PA 19355
Fax: (866) 306-6885

SIEMENS REPRESENTATIVE
Perry Pelikan

Qty	Part No.	Item Description
1	C5672105	Helium Fill 30/60 H,S,SON
1	08465481	Chiller, 60 Hz #Av
1	08465308	Chiller Soft Start, 60 Hz #Av
	MR_STD_RIG... INST MR_BTL_INST ALL	The purpose of the soft start notion is the smooth start up of the compressor units. MR Standard Rigging and Installation MR Standard Rigging & Install
1	MR_CRYO	Standard Cryogens
1	4MR5142889	Armrest #MR
1	MR_PM	MR Project Management
1	CT_ADDL_RIG GING	Out of Scope Rigging \$5,280 addl' rigging this reflects 50% of actual rigging cost of \$10,560
1	MR_INITAL_32 MR_FOLLOWUP P_24 MR_SYNCO_B CLS	Initial onsite training 32 hrs Follow-up training 24 hrs Basic synco MR Class
1	MR_ADD_32 MR_PR_NGB_09	Additional onsite training 32 hours Novation 2009 Group Buy promo
1	MR_PR_NGB_09 _XWR_ESP MR_PR_NGB_09 _EXWR_ES MR_PR_NGB_09 _WKFL_ES MR_TRADE_IN _ALLOW	Novation GB MR ExWty 6 mos ES FMV\$75K Novation GB MR ExWty 6 mos ES (FMV\$75K) Workflow Pkg FMV (\$130K) Espree MR Trade-in-Allowance Phillips Interac as per project 11394-02 \$100,000
1	CHILINST_AVT	Chiller Start-up and Warranty for TIM
1	NV474S 84F	Invivo 1.5T lower extremity coil
1	INV300260	7-channel Breast Coil #AV-ES INVIVO
1	MROIPMAP	Stereo system with IPOD Stereo system includes the following: Google CD player with tuner and speakers iPOD Nano iPOD credit Line level attenuator 25 ft. of RCA cable. System can be played stand-alone or connected to an intercom system that accepts an RCA audio input.

System Total: \$1,272,892

OPTIONS:

Qty	Part No.	Item Description	Extended Price	Initial to Accept
1	14412882	UPS Powerware PW9130G-3000T-XLEU UPS system Eaton PW9130-3000G-3000T-XLEU for MAGNETOM Tim and MAGNETOM Symphony Systems for safeguarding computers. Power output: 3.0 kVA / 2.7 kW Bridge timer: 5 min full load / 14 min half load Input voltage: 230 VAC	+ \$2,700	X <i>14412882</i>

SIEMENS

Siemens Medical Solutions USA, Inc.

51 Valley Stream Parkway, Malvern, PA 19355

Fax: (866) 306-6685

SIEMENS REPRESENTATIVE

Peggy Pelikan

Qty	Part No.	Item Description	Extended Price	Initial to Accept
1	03857628	UPS Cable #Tim Power cable for the UPS-system UPS Powerware PW 9125-3000I (8857810) at the ACC of the MAGNETOM Tim systems for packing up the computer. Standard cable length 3 m.	+\$1,500	X <u>mR</u>

FINANCING: The equipment listed above may be financed through Siemens. Ask us about our full range of financial products that can be tailored to meet your business and cash flow requirements. For further information, please contact your local Sales Representative.

ACCESSORIES: Don't forget to ask us about our line of OEM imaging accessories to complete your purchase. All accessories can be purchased or financed as part of this order. To purchase accessories directly or to receive our accessories catalog, please call us directly at 1-888-222-0044 ext. 7 or contact your local Sales Representative.

COMPLIANCE: Compliance with legal and internal regulations is an integral part of all business processes at Siemens. Possible infringements can be reported to our Helpdesk "Tell us" function at www.siemens.com/tell-us.

SIEMENS

Siemens Medical Solutions USA, Inc.
61 Valley Stream Parkway, Malvern, PA 19355
Fax: (666) 306-6685

SIEMENS REPRESENTATIVE
Peggy Pelikan

Siemens Medical Solutions USA, Inc. General Terms and Conditions

1. GENERAL

1.1 **Contract Terms.** These terms and conditions constitute an integral part of any contract between the Seller, identified on the first page hereto, to sell products ("Products") and Purchaser and shall govern the sale of the Products. Seller shall not be bound by, nor specifically subject to, any terms, conditions or other provisions which are different from or in addition to the provisions of this Agreement (whether or not it would materially alter this Agreement) which is proffered by Purchaser in any purchase order, receipt, acceptance, confirmation, correspondence or otherwise, even if provided to Seller concurrently with this Agreement, unless Seller specifically agrees to any such provision in a writing signed by Seller. Neither Seller's lack of objection to any such terms, nor delivery of the Products or provision of any services hereunder, shall constitute the agreement of Seller to any such terms. Purchaser acknowledges that this is a commercial and not a consumer transaction.

1.2 **Acceptance.** Purchaser shall be deemed to have assented to, and waived any objection to, this Agreement upon the earliest to occur of any of the following: Purchaser's completion or execution of this Agreement; Purchaser's acceptance of all or any part of the Products subject to this Agreement; Purchaser's issuance of a purchase order for any Products identified on Seller's quotation or proposal; or delivery of the Products to the common carrier for shipment pursuant hereto.

1.3 **Refurbished/Used Products.** For Products identified on the Agreement as used or refurbished products, these Products have been previously owned and used. When delivered to Purchaser, the Products may have received mechanical, electrical and/or cosmetic reconditioning, as needed, and will comply with the manufacturer's specifications. Since pre-owned Products may be offered simultaneously to several customers, the sale of such Products to Purchaser cannot be guaranteed and is subject to continuing availability at the time Purchaser accepts Seller's offer to sell the Products. If the Products are no longer available, Seller will use its best efforts to identify other products in its inventory that may be suitable for purchase by Purchaser, and if substitute products are not acceptable to Purchaser, then Seller will cancel the order and return to Purchaser any deposits previously paid. The warranty period for any used or refurbished Products will be separately stated on the quotation.

1.4 **Third Party Products.** If this Agreement includes the sale of third party products not manufactured by Seller, then Purchaser agrees and acknowledges that (a) Purchaser has made the selection of these products on its own, (b) the products are being acquired by Seller solely at the request of and for the benefit of Purchaser, in order to eliminate the need for Purchaser to issue a separate purchase order to the manufacturer of the products, (c) no representation, warranty or guarantee has been made by Seller with respect to the products, (d) the obligation of Purchaser to pay Seller for the products is absolute and unconditional, (f) Purchaser will accept no claim whatsoever against the Seller with respect to the products, and will look solely to the manufacturer regarding any such claims, (g) Purchaser will indemnify and hold Seller harmless from and against any and all claims, regardless of the form of action, relating to, resulting from or caused by the products or any work or services provided by the manufacturer of the products or any other party, (n) use of the products may be subject to the Purchaser's agreement to comply with any software licensing terms imposed by the manufacturer, as well as any applicable laws, rules and regulations; and (l) the manufacturer, and not Seller, is solely responsible for any required installation, testing, validation, tracking, protocol recall, warranty service, maintenance, support and complaint handling, as well as any other applicable FDA regulatory requirements.

2. PRICES

2.1 **Quotations.** Unless otherwise agreed to in writing or set forth in the quotation, all prices quoted by Seller are based on U.S. dollars, and include standard and customary packaging. F.O.B. terms are set forth in Section 5.2 hereof. Domestic prices apply only to purchasers located in, and who will use the Products in, the U.S.; international prices apply to all purchasers located outside of, or who will use or ship or facilitate shipment of the Products outside of, the U.S. Unless otherwise stated, the quotation shall only be valid for forty-five (45) days from the date of the quotation.

2.2 **Delay In Acceptance of Delivery.** Should the agreed delivery date be postponed by Purchaser, Seller shall have the right to deliver to storage at Purchaser's risk and expense, and payments due upon delivery shall become due when Seller is ready to deliver.

2.3 **Escalation.** Unless otherwise agreed to in writing, except as to goods to be delivered within six (6) months of Seller's acceptance of Purchaser's order, Seller reserves the right to increase its prices to those in effect at the time of shipment.

3. TAXES

3.1 Any sales, use or manufacturer's tax which may be imposed upon the sale or use of Products, or any property tax levied after readiness to ship, or any excise tax, license or similar fee required under this transaction, shall be in addition to the quoted price and shall be paid by Purchaser. Notwithstanding the foregoing, Seller agrees to honor any valid exemption certificate provided by Purchaser.

4. TERMS OF PAYMENT

4.1 **Payments; Due Date.** Unless otherwise set forth in the quotation, Seller's payment terms are as follows: an initial deposit of 10% of the purchase price for each Product is due upon submission of the purchase order, an additional 60% of the purchase price is due upon delivery of each Product, and the final 10% of the purchase price is due upon completion of installation or when the Products are available for first patient use, whichever occurs first. Unless otherwise agreed, all payments other than the initial deposit are due net thirty (30) days from the date of invoice. Seller shall have no obligation to complete installation until the payment due upon delivery of the Product is received. All amounts payable pursuant to this Agreement are determined in United States dollars, and Purchaser shall pay all such amount in lawful money of the United States. Partial shipments shall be billed as made, and payments for such shipments will be made in accordance with the foregoing payment terms. In the event that Purchaser makes any payments hereunder by credit card, Seller has the right to charge the Purchaser any credit card fees imposed on the Seller by the financial institution.

4.2 **Late Payment.** A service charge of 1% per month, not to exceed the maximum rate allowed by law, shall be made on any portion of Purchaser's outstanding balance which is not paid within thirty (30) days after invoice date, which charge shall be determined and compounded on a daily basis from the due date until the date paid. Payment of such service charge shall not excuse or cure Purchaser's breach or default for late payment. In addition, in the event that Purchaser fails to make any payment to Seller within this thirty (30) day period, including but not limited to any payment under any service contract, consultancy note or other agreement with Seller, then Seller shall have no obligation to continue performance under any agreement with Purchaser.

4.3 **Payment of Lesser Amount.** If Purchaser pays, or Seller otherwise receives, a lesser amount than the full amount provided for under this Agreement, such payment or receipt shall not constitute or be construed other than as on account of the earliest amount due Seller. Seller may accept any check or payment in any amount without prejudice to Seller's right to recover the balance of the amount due or to pursue any other right or remedy. No endorsement or statement on any check or payment or in any letter accompanying a check or payment or a seminar shall constitute or be construed as an accord or satisfaction.

4.4 **Where Payment Due Upon Installation or Completion.** Should any terms of payment provide for either full or partial payment upon installation or completion of installation or otherwise and the installation is delayed for any reason for which Seller is not responsible, then the Products shall be deemed to be had upon delivery and, if no other terms were agreed upon in writing signed by the parties, the balance of payments shall be due no later than thirty (30) days from delivery regardless of the actual installation date.

4.5 **Default/Termination.** Each of the following shall constitute an event of default under this Agreement: (i) a failure by Purchaser to make any payment due Seller within ten (10) days of receipt of notice of non-payment from Seller; (ii) a failure by Purchaser to perform any other obligation under this Agreement within thirty (30) days of receipt of notice from Seller; (iii) a default by Purchaser or any affiliate of Purchaser under any other obligation to or agreement with Seller, Siemens Financial Services, Inc., or Siemens Medical Solutions Health Services Corporation, or any assignee of the foregoing (including, but not limited to, a promissory note, lease, rental agreement, license agreement or purchase contract); or (iv) the commencement of any insolvency, bankruptcy or similar proceedings by or against the Purchaser (including any assignment by Purchaser for the benefit of creditors). Upon the occurrence of any event of default, at Seller's election: (a) the entire amount of any indebtedness and obligation due Seller under this Agreement and interest thereon shall become immediately due and payable without notice, demand, or period of grace; (b) Seller may suspend the performance of any of Seller's obligations hereunder, including, but not limited to, obligations relating to delivery, installation and warranty services; (c) Purchaser shall put Seller in possession of the Products upon demand; (d) Seller may enter any premises where the Products are located and take possession of the Products without notice or demand and without legal proceedings; (e) at the request of Seller, Purchaser shall

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assemble the Products and make them available to Seller at a place designated by Seller which is reasonable and convenient to all parties; (f) Seller may sell or otherwise dispose of all or any part of the Products and apply the proceeds thereof against any indebtedness or obligation of Purchaser under this Agreement (Purchaser agrees that a period of 10 days from the time notice is sent to Purchaser shall be a reasonable period of notification of sale or other disposition of the Products by or for Seller); (g) if this Agreement or any indebtedness or obligation of Purchaser under this Agreement is referred to an attorney for collection or realization, Purchaser shall pay to Seller all costs of collection and realization (including, without limitation, a reasonable sum for attorney's fees, expenses of title search, all court costs and other legal expenses) incurred thereby; and (h) Purchaser shall pay any deficiency remaining after collection or realization on by Seller on the Products. In addition, Seller may terminate this Agreement upon written notice to Purchaser in the event that Purchaser is not approved for credit or upon the occurrence of any material adverse change in the financial condition or business operations of Purchaser.

4.6 Financing. Notwithstanding any arrangement that Purchaser may make for the financing of the purchase price of the Products, the parties agree that any such financing arrangement shall have no effect on the Purchaser's payment obligations under this Agreement, including but not limited to Sections 4.1 and 4.2 above.

5. EXPORT TERMS

5.1 Unless other arrangements have been made, payment on export orders shall be made by irrevocable confirmed letter of credit, payable in U.S. dollars against Seller's invoice and standard shipping documents. Such letter of credit shall be in an amount equal to the full purchase price of the Products and shall be established in a U.S. bank acceptable to Seller. Purchaser shall procure all necessary permits and expenses for shipment and compliance with any governmental regulations concerning control of final destination of Products.

5.2 Purchaser shall not directly or indirectly violate any U.S. law, regulation or treaty, or any other international treaty or agreement, relating to the export or import of any Product or associated technical data, to which the U.S. adheres or with which the U.S. complies. Purchaser shall defend, indemnify and hold Seller harmless from any claim, damages, liability or expense (including but not limited to reasonable attorney's fees) arising out of or in connection with any violation of the preceding sentence. If Purchaser purchases a Product at the domestic price and exports such Product or transfers such Product to a third party for export, out of the U.S., Purchaser shall pay to Seller the difference between the domestic price and the international retail price of such Product pursuant to the payment terms set forth herein. Purchaser shall deliver to Seller, upon Seller's request, written assurance regarding compliance with this section in form and content acceptable to Seller.

6. DELIVERY, RISK OF LOSS

6.1 Delivery Date. Delivery and completion schedules are approximate only and are based on conditions at the time of acceptance of Purchaser's order by Seller. Seller shall make every reasonable effort to meet the delivery date(s) quoted or acknowledged, but shall not be liable for any failure in meet such date(s). Partial shipments may be made.

6.2 Risk of Loss; Title Transfer. Unless otherwise agreed to in writing, the following shall apply:

(a) For Products that do not require installation by Seller or its authorized agent or subcontractor, and for options and add-on products purchased subsequent to delivery and installation of Products purchased under the Agreement, delivery shall be complete upon transfer of possession to customer, carrier, F.O.B. Shipping Point, whereupon title to and all risk of loss, damage to or destruction of the Products shall pass to Purchaser.

(b) For Products that require installation by Seller or its authorized agent or subcontractor, delivery shall be complete upon delivery of the Products to Purchaser's designated site, F.O.B. Destination; title to and all risk of loss, damage to or destruction of such Products shall pass to Purchaser upon completion of the installation by Seller or its authorized agent or subcontractor.

(c) All freight charges and other transportation, packing and insurance costs, license fees, custom duties and other similar charges shall be the sole responsibility of the Purchaser unless included in the purchase price or otherwise agreed to in writing by Seller. In the event of any loss or damage to any of the Products during shipment, Seller and Purchaser shall cooperate in making a claim against the carrier.

7. SECURITY INTEREST/LENDING

7.1 From the F.O.B. point, Seller shall have a purchase money security interest in the Products (and all accessories and replacements thereto and all proceeds thereof) until payment in full by Purchaser and satisfaction of all other obligations of Purchaser hereunder. Purchaser hereby (i) authorizes Seller to file (and Purchaser shall promptly execute, if requested by Seller) and (ii)

irrevocably appoints Seller its agent and attorney-in-fact to execute in the name of Purchaser and file, with such authorities and at such locations as Seller may deem appropriate, any Uniform Commercial Code financing statements with respect to the Products and/or this Agreement. Purchaser also agrees that an original or a photocopy of this Agreement (including any addenda, attachments and amendments thereto) may be filed by Seller as a Uniform Commercial Code financing statement. Purchaser further represents and covenants that (a) it will keep the Products in good order and repair until the purchase price has been paid in full, (b) it will promptly pay all taxes and assessments upon the Products or the use thereof, (c) it will not attempt to transfer any interest in the Products until the purchase price has been paid in full, and (d) it is solvent and financially capable of paying the full purchase price for the Products.

8. CHANGES, CANCELLATION, AND RETURN

8.1 Orders accepted by Seller are not subject to change except upon written agreement.

8.2 Orders accepted by Seller are noncancelable by Purchaser except upon Seller's written consent and payment by Purchaser of a cancellation charge equal to 10% of the price of the affected Products, plus any shipping, insurance, inspection and refurbishment charges; the cost of providing any training, education, site evaluation or other services; and any return cancellation or restocking fees with respect to any Third Party Products ordered by Seller on behalf of Purchaser. Seller may retain any payments received from Purchaser up to the amount of the cancellation charge. In no event can an order be cancelled by Purchaser or Products be returned to Seller after shipment has been made.

8.3 Seller shall have the right to change the manufacture and/or design of its Products if, in the judgment of Seller, such change does not alter the general function of the Products.

9. FORCE MAJEURE

9.1 Seller will make every effort to complete shipment and installation where indicated, but shall not be liable for any cost or damage for delay in delivery, inability to install or any other failure to perform due to causes beyond its reasonable control including, but not limited to, acts of government, compliance with any governmental rules or regulations, acts of God or the public, war, civil commotion, blockades, embargoes, calamities, floods, fires, earthquakes, explosions, storms, strikes, lockouts, labor disputes, or unavailability of labor, raw materials, power or supplies. Should such a delay occur, Seller may reasonably extend delivery of production schedule or, at its option, cancel the order in whole or part without liability other than to return any unearned deposit or prepayment.

10. WARRANTY

10.1 Seller warrants that the Products manufactured by Seller and sold hereunder shall be free from defects in material or workmanship under normal use and service for the warranty period. The finished assembled Products shall be new although they may include reusing used, remanufactured or refurbished parts and components (e.g., circuit boards) that comply with performance and reliability specifications and controls. Seller's obligation under this warranty is limited, at Seller's option, to the repair or replacement of the Product or any part thereof. Unless otherwise set forth in the Product Warranty attached hereto and incorporated herein by reference, the warranty on first shift commerce upon the earlier of the date that the Products have been installed in accordance with 12.3 hereof, which date shall be confirmed in writing by Seller, or 3 years, patient use and shall continue for 12 consecutive months. Seller makes no warranty for any Products made by persons other than Seller or its affiliates, and Purchaser's sole warranty provider. If any, is the original manufacturer's warranty, which Seller agrees to pass on to Purchaser, as applicable. The warranty provided by Seller under this Section 10 extends only to the original Purchaser, unless the Purchaser obtains the Seller's prior written consent with respect to any sale or other transfer of the Equipment during the term of the warranty.

10.2 No warranty extended by Seller shall apply to any Products which have been damaged by fire, accident, misuse, abuse, negligence, improper application or alteration or by a force majeure occurrence as described in Section 9 hereof or by the Purchaser's failure to operate the Products in accordance with the manufacturer's instructions or to maintain the recommended operating environment and use conditions, which are defective due to unauthorized attempts to repair, relocate, maintain, service, add to or modify the Products by the Purchaser or any third party or due to the attachment and/or use of non-Seller supplied equipment, parts or software, without Seller's prior written approval; which is due to causes from within non-Seller supplied equipment, parts or software; which have been damaged from the use of operating supplies or consumable parts not approved by Seller. In addition, no warranty extended by Seller shall apply to any transducer or probe failure due to events such as cracking from high impact drops, cable rupture from rolling equipment; over the cable, or deterioration from cleaning

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with inappropriate solutions. Seller's obligation under this warranty is limited to the repair or replacement, at Seller's option, of defective parts. Seller may effectuate such repair at Purchaser's facility, and Purchaser shall furnish Seller sole and sufficient access for such repair. Repair or replacement may be with parts or products that are new, used or refurbished. Repairs or replacements shall not interrupt, extend or prolong the term of the warranty. Purchaser shall, upon Seller's request, return the noncomplying Product or part to Seller with all transportation charges prepaid, but shall not return any Product or part to Seller without Seller's prior written authorization. Purchaser shall pay Seller its nominal charges for services and parts for any inspection, repair or replacement that is not, in Seller's sole judgment, required by noncompliance with the warranty set forth in Section 10.1. Seller's warranty does not apply to consumable materials, disposables, supplies, accessories and collateral equipment, except as specifically stated in writing or as otherwise set forth in the Product Warranty attached hereto and incorporated herein by reference, nor to products or parts thereto supplied by Purchaser.

10.3 This warranty is made on condition that immediate written notice of any noncompliance be given to Seller and Seller's inspection reveals that the Purchaser's claim is valid under the terms of the warranty (i.e., that the noncompliance is due to traceable defects in original materials and/or workmanship).

10.4 Purchaser shall provide Seller with full and free access to the Products, network cabling and communication equipment as is reasonably necessary for Seller to provide warranty service. This access includes establishing and maintaining connectivity to the Products via VPN (Peer Tunneling (non-client) Point-to-Peer connection, modem-line, internet connection, broadcast Internet connection or other secure remote access reasonably required by Seller, in order for Seller to provide warranty service, including remote diagnostics, monitoring and repair services).

10.5 Warranty service will be provided without charge during Seller's regular working hours (8:00-5:00), Monday through Friday, except Seller's recognized holidays. If Purchaser requires that service be performed other than during these times, such service can be made available at an additional charge, at Seller's then current rates. The obligations of Seller described in this section are Seller's only obligations and Purchaser's sole and exclusive remedy for a breach of product warranty.

10.6 SELLER MAKES NO WARRANTY OTHER THAN THE ONE SET FORTH HEREIN AND IN THE ATTACHED PRODUCT WARRANTY COVERING THE APPLICABLE PRODUCT CATEGORY. SUCH WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES, AND SUCH CONSTITUTES THE ONLY WARRANTY MADE WITH RESPECT TO THE PRODUCTS AND ANY DEFECT, DEFICIENCY OR NONCONFORMITY IN ANY PRODUCT, SERVICE OR OTHER ITEM FURNISHED UNDER THIS AGREEMENT.

10.7 In the event of any inconsistencies between the terms of this Section 10 and the terms of the attached Product Warranty, the terms of the attached Product Warranty shall prevail.

11. LIMITATION OF LIABILITY

11.1 In no event shall Seller's liability hereunder exceed the actual loss or damage sustained by Purchaser, up to the purchase price of the Products.

11.2 SELLER SHALL NOT BE LIABLE FOR ANY LOSS OF USE, REVENUE OR ANTICIPATED PROFITS, COST OF SUBSTITUTE PRODUCTS OR SERVICES, LOSS OF STORED, TRANSMITTED OR RECORDED DATA, OR FOR ANY INDIRECT, INCIDENTAL, UNFORESEEN, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR THE SALE OR USE OF THE PRODUCTS. This provision does not affect third party claims for personal injury arising as a result of Seller's negligence or product defect. THE FOREGOING IS A SEPARATE, ESSENTIAL TERM OF THIS AGREEMENT AND SHALL BE EFFECTIVE UPON THE FAILURE OF ANY REMEDY, EXCLUSIVE OR NOT.

12. INSTALLATION - ADDITIONAL CHARGES

12.1 General. Unless otherwise expressly stipulated in writing, the Products covered hereby shall be installed by and at the expense of Seller except that Seller shall not provide rigging or site preparation services unless otherwise agreed to in writing by Seller for an additional charge. Seller will not install accessory items such as cabinets, illuminators, darkroom equipment or processors for X-Ray and CT equipment, unless otherwise agreed to in writing by Seller.

12.2 Installation by Seller. If Seller specifies it will install the Products, the following applies subject to fulfillment of the obligations set forth in 12.4 below. Seller shall install the Products covered hereby and connect same to the requisite safety switches and power lines to be installed by Purchaser. Except as otherwise specified below, if such installation and connection are performed by Seller's technical personnel, prices shown in the cost thereof, provided

that the installation and connection can be performed within the Continental United States or Puerto Rico and during normal business hours. Any overtime charges or other special expenses shall be additional charges to the prices shown.

12.3 Trade Unions. In the event that a trade union, or unions or other local labor controllers prevent Seller from performing the above work with its own employees or contractors, then Purchaser shall either make all required arrangements with the trade union, or unions, to permit Seller's completion of said work or shall provide the personnel, at Purchaser's sole cost and expense. Moreover, any additional cost incurred by Seller and related to such labor disputes shall be paid by the Purchaser and Seller's obligations under such circumstances will be limited to providing engineering supervision of installation and connection of Seller equipment to existing wiring.

12.4 Purchaser's Obligations. Purchaser shall, at its expense, provide all proper and necessary labor and materials for plumbing service, carpentry work, conduit wiring, and other preparations required for such installation and connection. All such labor and materials shall be completed and available at the time of delivery of the Products by Seller. Additionally, the Purchaser shall provide free access to the premises of installation site, if necessary, safe and secure space thereon for storage of Products and equipment prior to installation by Seller. Purchaser shall be responsible, at its sole cost and expense, for obtaining all permits, licenses and approvals required by any federal, state or local authorities in connection with the installation and operation of the Products, including but not limited to any certificate of need and zoning variances. Purchaser shall provide a suitable environment for the Products and shall ensure, at its sole cost and expense, that the premises are free of asbestos, hazardous conditions and any concealed, unknown or dangerous conditions and that all site requirements are met. Seller shall delay its work until Purchaser has completed the removal of the asbestos or other hazardous materials or has taken any other precautions and completed any other work required by applicable regulations. Purchaser shall reimburse Seller for any increased costs and expenses incurred by Seller that are the result of or are caused by any such delay. In the event that Seller is requested to supervise the installation of the Products, it remains the Purchaser's responsibility to comply with local regulations. Seller is not an architect and all drawings furnished by Seller are not construction drawings.

12.5 Regulatory Reporting. In the event that any regulatory activity is performed by other than Seller authorized personnel, Purchaser shall be responsible for fulfilling any and all reporting requirements.

12.6 Completion of Installation. Installation shall be complete upon the conclusion of final calibration and checkout under Seller's standard procedures to verify that the Products meet applicable written performance specifications. Notwithstanding the foregoing, first use of the Products by Purchaser, its agents or employees for any purpose after delivery shall constitute completion of installation.

13. PATENT, TRADEMARK AND OTHER INFRINGEMENT CLAIMS

13.1 Infringement by Seller. Seller warrants that the Products manufactured by Seller and sold hereunder do not infringe any U.S. patent or copyright. If Purchaser receives a claim that any such Product, or parts thereof, infringes upon the rights of others under any U.S. patent or copyright, Purchaser shall notify Seller immediately in writing. As to all infringement claims relating to Products or parts manufactured by Seller or one of its affiliates:

(a) Purchaser shall give Seller information, assistance and exclusive authority to evaluate, defend and settle such claims.

(b) Seller shall then, at its own expense, procure for the Purchaser the right to use the Products, or remove or modify them to avoid infringement. If none of these alternatives is available on terms reasonable to Seller, then Purchaser shall return the Products to Seller and Seller shall refund to Purchaser the purchase price paid by the Purchaser less reasonable depreciation for Purchaser's use of the Products. The foregoing states Seller's entire obligation and liability, and the Purchaser's sole remedy, for claims of infringement.

13.2 Infringement by Purchaser. If some or all of the Products sold hereunder are made by Seller pursuant to drawings or specifications furnished by the Purchaser, or if Purchaser modifies or combines, operates or uses the Products other than as specified by Seller or with any product, data, software, apparatus or program not provided or approved by Seller, then the indemnity obligation of Seller under Section 13.1 shall be null and void and should a claim be made that such Products infringe the rights of any third party under patent, trademark or otherwise, then Purchaser shall indemnify and hold Seller harmless against any liability or expense, including reasonable attorneys' fees, incurred by Seller in connection therewith.

14. DESIGNS AND TRADE SECRETS; LICENSE; CONFIDENTIALITY

14.1 Any drawings, data, designs, software programs or other technical

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information supplied by Seller to Purchaser in connection with the sale of the Products are not included in the sale of the Products to Purchaser, shall remain Seller's property and shall at all times be held in confidence by Purchaser. Such information shall not be reproduced or disclosed to others without Seller's prior written consent.

14.2 For all goods purchased hereunder which utilize software for their operation, such "Applications Software" shall be licensed to Purchaser under the terms of Seller's Software License Schedule as attached hereto.

14.3 Diagnostic/Maintenance Software is not included under 14.2 above, is available only as a special option under a separate Diagnostic Materials License Agreement and may be subject to a separate licensing fee.

14.4 Seller and Purchaser shall maintain the confidentiality of any information provided or disclosed to the other party relating to the business, customers and/or patients of the delegating party as well as the Agreement and its terms (including the pricing and other financial terms under which the Purchaser will be purchasing the Products hereunder). Each party shall use reasonable care to protect the confidentiality of the information disclosed, but no less than the degree of care it would use to protect its own confidential information, and shall only disclose the other party's confidential information to its employees and agents having a need to know this information. The obligations of confidentiality set forth herein shall not apply to any information in the public domain at the time of disclosure or that is later used to be disclosed by court order or by law.

15. ENGINEERING CHANGES

15.1 Seller makes no representation that engineering changes which may be announced in the future will be suitable for use or, or in connection with, the Products.

16. ASSIGNMENT

16.1 Neither party may assign any rights or obligations under this Agreement without the written consent of the other and any attempt to do so shall be void, except that Seller may assign this Agreement without consent to any subsidiary or affiliated company, and may delegate to authorized subcontractors or service suppliers any work to be performed under this Agreement so long as Seller retains final responsibility for the performance of its obligations under this Agreement. This Agreement shall inure to and be binding upon the parties and their respective successors, permitted assigns and legal representatives. Seller shall have no obligations under this Agreement to any assignee of Purchaser that is not approved by Seller in advance.

17. DAMAGES, COSTS AND FEES

17.1 In the event that any dispute or difference is brought, arising from or relating to this Agreement, or the breach, termination or validity thereof, the prevailing party shall NOT be entitled to recover from the other party any punitive damages. The prevailing party shall be entitled to recover from the other party all reasonable attorneys' fees incurred, together with such other expenses, costs and disbursements as may be allowed by law.

18. MODIFICATION

18.1 This Agreement may not be changed, modified or amended except in writing signed by duly authorized representatives of the parties.

19. GOVERNING LAW; WAIVER OF JURY TRIAL

19.1 This Agreement shall be governed by the laws of the Commonwealth of Pennsylvania.

19.2 EACH OF THE PARTIES EXPRESSLY WAIVES ALL RIGHTS TO A JURY TRIAL IN CONNECTION WITH ANY DISPUTE UNDER THIS AGREEMENT.

20. COST REPORTING

20.1 Purchaser agrees that it will fully and accurately account for and report in all cost reports and otherwise fully and accurately disclose to federal and state health care program payors and fully and accurately reflect where and as appropriate to the applicable reimbursement methodology, all services and other items, including any and all discounts, received from Seller under this Agreement, in compliance with all applicable laws, rules and regulations, including but not limited to the Health Security Act and implementing regulations relating to Medicare, Medicaid and other federal and state health care reimbursement programs.

21. INTEGRATION

21.1 These terms and conditions, including any attachments or other documents incorporated by reference herein, constitute the entire agreement and the complete and exclusive statement of agreement with respect to the subject matter hereof, and supersede any and all prior agreements, understandings and communications between the parties with respect to the products.

22. SEVERABILITY; HEADINGS

22.1 No provision of this Agreement which may be deemed unenforceable will in any way invalidate any other portion or provision of this Agreement. Section headings are for convenience only and will have no substantive effect.

23. WAIVER

23.1 No failure and no delay in exercising, on the part of any party, any right under this Agreement will operate as a waiver thereof, nor will any single or partial exercise of any right preclude the further exercise of any other right.

24. NOTICES

24.1 Any notice or other communication under this Agreement shall be deemed properly given if given in writing and delivered in person or mailed, properly addressed and stamped with the required postage, to the intended recipient at its address specified on the face hereof. Either party may from time to time change such address by giving the other party notice of such change in accordance with this section.

25. RIGHTS CUMULATIVE

25.1 The rights and remedies afforded to Seller under this Agreement are in addition to, and do not in any way limit, any other rights or remedies afforded to Seller by any other agreement, by law or otherwise.

26. END USER CERTIFICATION

26.1 Purchaser represents, warrants and covenants that it is acquiring the products for its own end use and not for reselling, leasing or transferring to a third party (except for lease-back financings).

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Software License Schedule to the Siemens Medical Solutions USA, Inc. General Terms and Conditions

1. DEFINITIONS: The following definitions apply to this Schedule:
"Agreement" shall mean the attached (i) Quotation for Products and/or Services including the Terms and Conditions of Sale and applicable schedules; and/or (ii) Software License Agreement describing the software licensed herein and the specific system for which the license is issued.
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CT Warranty Information

Equipment	Period of Warranty ¹	Coverage
CT System (not including glassware and consumables)	12 month	Full Warranty (parts & labor) including Stator tube

Following parts will include warranty as listed below:

Single Tank tube with rotating anode (non spiral) (Rotanz)	Prorated to a maximum of 60,000 scans or 12 month whichever occurs first	Prorated credit given to customer against replacement cost	credit percentage = $(60,000 - \text{scans used}) / 60,000 * 100$
Single Tank tube with rotating anode (spiral) (Rotanz)	Prorated to a maximum of 130,000 scanseconds or 12 month whichever occurs first	Prorated credit given to customer against replacement cost	credit percentage = $(130,000 - \text{scanseconds used}) / 130,000 * 100$
Opti 151 and Opti 15T tubes	Prorated to a maximum of 60,000 scans or 12 month whichever occurs first	Prorated credit given to customer against replacement cost	credit percentage = $(60,000 - \text{scans used}) / 60,000 * 100$
All other Dura tubes and Opti 131 tube	Prorated to a maximum of 130,000 scanseconds or 12 month whichever occurs first	Prorated credit given to customer against replacement cost	credit percentage = $(130,000 - \text{scanseconds used}) / 130,000 * 100$
Dura Akron B tubes	Prorated to a maximum of 150,000 scanseconds or 12 month whichever occurs first	Prorated credit given to customer against replacement cost	credit percentage = $(150,000 - \text{scanseconds used}) / 150,000 * 100$
Dura Akron Q tubes	Prorated to a maximum of 120,000 scanseconds or 12 month whichever occurs first	Prorated credit given to customer against replacement cost	credit percentage = $(120,000 - \text{scanseconds used}) / 120,000 * 100$
Cathode-ray tubes (CRT)	12 month		
Consumables	Not covered		

Post-Warranty (after expiration of system warranty) – Replacement parts only

Straton	Prorated to a maximum of 160,000 scanseconds or 12 month whichever occurs first	Prorated credit given to customer against replacement cost	credit percentage = $(160,000 - \text{scanseconds used}) / 160,000 * 100$
Spare Parts	6 month	Parts only	

Note: Optional extended warranty coverage can be obtained by purchase of a service agreement.

¹ Period of warranty commences from the date of first use or completion of installation, whichever occurs first. In the event the completion of installation is delayed for reasons beyond Siemens' control, the stated warranty period shall commence 60 days after delivery of equipment.

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MR Warranty Information

<u>Product</u>	<u>Period of Warranty¹</u>	<u>Coverage</u>
MR System (not including consumables)	12 months	Full Warranty (parts & labor)

Post Warranty (after expiration of system warranty) - Replacement parts only:

Magnet	12 months	Parts only
Spare Parts	6 months	Parts only
Consumables	Not Covered	

Note: Optional extended warranty coverage can be obtained by purchase of a service agreement.

Magnet extends to 60 month only if there is a Five Year Cryogenic Supply Contract plus a Five Year Magnet Maintenance Agreement attached to the Service Agreement.

¹ Period of warranty commences from the date of first use or completion of installation, whichever occurs first. In the event the completion of installation is delayed for reasons beyond Siemens' control, the stated warranty period shall commence 90 days after delivery of equipment.

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Detailed Technical Specifications

MAGNETOM Espree

Part No. / Product	Description
07564514 MAGNETOM Espree - System	<p>The MAGNETOM Espree features the Tim Application Suite. The Tim Application Suite provides a complete range of clinically optimized sequences, protocols and workflow functionalities for virtually all clinical questions. There are nine dedicated application packages:</p> <ul style="list-style-type: none">- Neuro Suite- Anglo Suite- Cardiac Suite- Body Suite- Onco Suite- Breast Suite- Ortho Suite- Pediatric Suite- Scientific Suite <p>The high performance host computer and image processor are ideally suited for even the most demanding applications.</p> <p>The system including magnet, electronics and control room can be installed in 30 m² (325 ft²) space.</p> <p>The system includes:</p> <p>Magnet: The world's shortest, whole-body superconductive 1.5T magnet with</p> <ul style="list-style-type: none">- 120 cm length- 6th generation active shielding (AS) technology with counter running coil technology- External Interference Shielding (E.I.S.)- High homogeneity (typ. 2.9 ppm, based on 24 plane plot, 45x45x30 mm³ volume)- Helium capacity of 960 liters- Zero helium boil-off rate of 0 l/m during typical, undisturbed clinical operation depending on the sequences used and examination time, and provided the system is serviced at regular intervals.- Integrated magnet cooling system. <p>Z-engine Gradient System:</p> <ul style="list-style-type: none">- Actively shielded water cooled gradient system- 33 mT/m per axis or 57 mT/m effective- 130 T/m/s slew rate or 173 T/m/s effective- Minimized acoustic noise <p>RF Transmit and Receive System:</p> <ul style="list-style-type: none">- Compact water cooled solid state RF amplifier- Integrated electronics cabinet water cooling- Integrated circularly polarized Body Coil, which can be used as transmitter with local receive coils or as transmitter and receiver, for example in the case of bariatric patients- Revolutionary Total imaging matrix allows a large number of coil elements to be seamlessly integrated into one examination together with a large number of RF channels, optimizes coil positioning and virtually eliminates coil changing times <p>RF Coils:</p> <ul style="list-style-type: none">- Head Matrix coil- 12-element design with 12 integrated preamplifiers, two rings of 6 elements each (i.e. 4 clusters of 3

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Part No. / Product	Description
(Continued) 075B4514 MAGNETOM Espree - System	<p>elements each):</p> <ul style="list-style-type: none">- Operated depending on the Matrix Coil Mode as a 4-channel coil (CP Mode), 8-channel coil (Dual Mode) or 12-channel coil (Triple Mode).- For applications like Brain examinations, MR Angiography, combined head/neck examinations, TMJ (temporo mandibular joints) <p>- Neck Matrix coil</p> <ul style="list-style-type: none">- 4-element design with 4 integrated preamplifiers, 2 clusters of 2 elements each- Operated depending on the Matrix Coil Mode as a 2-channel coil (CP Mode) or 4-channel coil (Dual Mode, Triple Mode).- For applications like Cervical Spine, Neck, Larynx/Oesophagus, VR Angiography, Mediastinum, combined head/neck examinations <p>- Spine Matrix coil</p> <ul style="list-style-type: none">- 24-element design with 24 integrated preamplifiers, 8 clusters of 3 elements each- Operated depending on the Matrix Coil Mode as a 6-channel coil (CP Mode), 16-channel coil (Dual Mode) or 24-channel coil (Triple Mode).- For applications like high resolution imaging of the whole spine, but also for various applications in combination with additional coils <p>Workflow and Patient Handling</p> <ul style="list-style-type: none">- Tim - Total Imaging matrix<ul style="list-style-type: none">- Tim provides increased patient comfort and optimized workflow efficiency. Only one patient setup, no repositioning, no changing of coils- Ultra-light weight coils- Imaging with optimized surface coil quality- Software controlled remote table move- Feet-first positioning for almost all examinations- Patient table<ul style="list-style-type: none">- Free floating table with max. stack range of 164 cm (5' 1"). The tabletop travels approx. 60 cm (2'7"), respectively 132 cm (4'4"), with the option of Time Within Body Suite – beyond the rear end of the system, for additional patient access.- Patient weight limit of 250 kg (550 lbs) in both vertical and horizontal movement (support begins with software version syngo MR S13).- Tables lowers down to 47 cm (1' 6") for easy access for all patients (e.g. disabled, geriatric and bariatric).- Two Tableside Control Units integrated into the front cover ergonomically designed and positioned (left and right).- Appealing CT-like design with 70 cm opening enhances comfort for more patients and enables scanning of bariatric patients. The system is only 125 cm long giving a short and open appearance that can significantly help patients with claustrophobia or anxiety about the MR examination.- The cantilevered design gives the system a light and unimposing appearance while providing unobstructed foot space for attending staff and better access to the patient.- Patient Positioning Aids<ul style="list-style-type: none">- Comprehensive set of cushions for comfortable and stable patient positioning together with safety straps.- Patient Comfort facilities, Patient Communication<ul style="list-style-type: none">- Ergonomically designed patient intercom- Variable (3 levels) ventilation and lighting inside the magnet bore <p>Application packages:</p> <p>Tim Application Suite: MR Imaging - par excellence The Tim Application Suite has a complete range of clinically optimized examinations for all regions. Excellent head-to-toe imaging can be accomplished with the sequences and features included in this application suite.</p>

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Part No. / Product	Description
(Continued) 07584514 MAGNETOM Espree - System	<p>To enable comprehensive head-to-toe MR Imaging, nine dedicated application packages Neuro Suite, Angio Suite, Cardiac Suite, Body Suite, Onco Suite, Breast Suite, Ortho Suite, Pediatric Suite and Scientific Suite have been included as standard applications.</p> <p>Neuro Suite Neuro Suite is part of the Tim Application Suite. Comprehensive head and spine examinations can be performed with dedicated programs that are optimized for clinical examinations. High-resolution protocols and fast protocols for uncooperative patients are provided. Neuro Suite also includes protocols for diffusion imaging, perfusion imaging, and fMRI. It includes for example:</p> <ul style="list-style-type: none">- EPI sequences and protocols for diffusion, perfusion and fMRI for advanced neurological applications. Diffusion weighted imaging is possible with up to 18 b-values in the orthogonal directions as well as multiple direction diffusion weighting in 6 or 12 directions to generate data sets for diffusion tensor imaging.- Dynamic Analysis software (included in standard configuration) enables calculation of:<ul style="list-style-type: none">- ADC maps- T-test maps from the EPI images for fMRI- Time-to-Peak maps for perfusion analysis- 3D isotropic resolution volume imaging using T1 3D MPRAGE / 3D FLASH, SPACE DarkFluid, T2 SPACE and 3D TSE- Whole spine protocols acquire in multiple steps via software controlled table movement in a single disk.- T2-weighted high-resolution 3D Restore protocols optimized for inner ear examinations.- 2D and 3D MEDIC protocols for T2-weighted imaging particularly in C-spine transverse where reproducibility can be difficult due to CSF pulsations and blood flow- 3D Myelo with 3D HASTE and 2D TrueFISP sequence for anatomical details- Dynamic sacro-iliac joint imaging using fast T1-weighted FLASH 2D sequence- Spine diffusion protocols with PSIF sequence. <p>Angio Suite Angio Suite is part of the Tim Application Suite. Excellent MR Angiography can be performed to visualize arteries and veins with or without contrast agent. This package includes: Contrast-enhanced MRA</p> <ul style="list-style-type: none">- 3D contrast-enhanced MRA protocols with or without iPAT for heart, neck, thorax, abdomen, and peripheral regions with the shortest TR and TE. Due to the strong gradients the arterial phase can be separated from the venous phase. The ultrafast ce-MRA protocols avoid venous contamination.- CareBoles functionality for excellent results. It supports accurate determination of the Bolus arrival time and the "Stop and Continue" real-time switching to the 3D ce-MRA scan protocol after the 2D bolus observation scan.- Excellent peripheral ce-MRA can be acquired with flexible coil combinations. <p>Non-contrast-MRA and venography</p> <ul style="list-style-type: none">- 2D and 3D ToF protocols for MRA for Circle of Willis, carotids, neck vessels, and breath hold protocols for abdominal vessels- Triggered 2D/3D ToF sequences for non-contrast MRA, particularly of the abdomen and the extremities- 2D/3D phase-contrast- MR venography with 2D/3D ToF and phase-contrast- TCINE (Tilted Optimized Non-saturation Excitation) and MTC techniques for improved CNR- Water-excitation 3D ToF protocol for better suppression of orbital fat <p>Image processing and workflow features</p> <ul style="list-style-type: none">- MIP, WinIP, and 3D SSD (Maximum Intensity Projection, Minimum Intensity Projection, Shaded Surface Display)- Inline Subtraction and MIP for immediate results- Inline standard deviation maps of phase-contrast measurements for differentiating arteries from veins.- Software-controlled table movements. <p>Cardiac Suite The Cardiac Suite covers the complete application range from morphology, ventricular and valvular function</p>

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Part No. / Product	Description
(Continued) 07584514 MAGNETOM Espree - System	<p>to tissue characterization. It features the new BEAT tool. The utilization of triggering requires the optional PMU Wireless Physic Control. This package includes:</p> <p>Cardiac view creation with BEAT</p> <ul style="list-style-type: none">- Cardiac scouting provides a step-by-step procedure for the visualization and planning of typical cardiac views (short axis, 4 chamber and 2 chamber views), based on e.g. TrueFISP or dark blood TurboFLASH.- Disease-oriented protocols are provided. <p>Morphology – Heart and Vessel structure with BEAT</p> <ul style="list-style-type: none">- Various breath-hold techniques for strong contrast between the blood and vascular structures. Dark Blood TSE and HASTE imaging are available for the structural evaluation of the cardio-thoracic anatomy, including vessels... <p>Ventricular Function, Valve Function and Wall Motion with BEAT</p> <ul style="list-style-type: none">- Tools for rapid evaluation of left or right ventricular function.- Automatic adjustment of parameters to the current heart rate.- Use of the Physic Display for graphical triggering setup.- Retros gated Cine imaging with TrueFISP or FLASH contrast.- iPAT integration for high temporal/spatial resolution.- Standard cine techniques for dynamic display can be used to visualize function of the heart valves (FLASH or TrueFISP). <p>Tissue characterization with BEAT</p> <ul style="list-style-type: none">- Fast techniques for dynamic imaging with iPAT capabilities for the assessment of coronary heart disease. These protocols allow the acquisition of multiple slices with high resolution, under stress and rest, with arbitrary slice orientation for each slice (e.g. 3 short axis slices and 1 long axis slice).- TI scout for the optimization of contrast between tissues.- High contrast and high resolution tissue characterization.- Single Shot or segmented IR TrueFISP/TurboFLASH for tissue characterization with free breathing.- Robust and reproducible contrast between tissues with 2D phase-sensitive inversion recovery, eliminating the need of TI adjustment (TrueFISP, TurboFLASH). <p>Body Suite Body Suite covers your needs for clinical body applications. Ultrafast high-resolution 2D and 3D protocols are provided for abdomen, pelvis, MR Colonography, MRCP, dynamic kidney, and MR Urography applications. Siemens unique 2D PACE technique makes body imaging easy allowing for multi-breath-hold examinations as well as free breathing during the scans. Motion artifacts are greatly reduced with 2D PACE inline technology. This package includes:</p> <ul style="list-style-type: none">- Free breathing 2D PACE applications with 2D/3D HASTE (RESTORE) and 2D/3D TSE (RESTORE)- Optimized fast single shot HASTE protocols and high-resolution 3D RESTORE protocols based on SPACE and TSE for MRCP and MR Urography examinations- Dedicated fat suppression protocols with Quick FatSat, STIR, SPAIR, FLASH and HASTE in-phase and opposed-phase protocols as well as multi-echo TSE, DIXON - 2 point Dixon with 3D VIBE. The following contrasts can be obtained: in-phase, opposed phase, fat and water image.- Dynamic 3D VIBE protocols for best visualization of focal lesions with high spatial and temporal resolution- High-resolution pelvic imaging (prostate, cervix)- Isotropic T2 SPACE 3D protocols for tumor search in the pelvis- Colonography bright lumen with T2-weighted TrueFISP and dark lumen with T1 weighted VIBE- Dynamic volume examinations with 3D VIBE- Syngo REVEAL (prerequisite: "Inline Diffusion" option) <p>Oncology Suite MR imaging has an excellent advantage of soft tissue contrast, multi-planar capabilities and the possibility of selectively suppressing specific tissue e.g. fat or water. This helps visualize pathologies, particularly metastases. The Oncology Suite features a collection of sequences as well as protocols and evaluation tools that guide through a detailed screening of clinical indications, such as hepatic neoplasias. This package includes:</p> <ul style="list-style-type: none">- STIR TSE and FLASH in-phase and opposed-phase protocols with a high sensitivity to metastases

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Part No. / Product	Description
(Continued) 07584514 MAGNETOM Express - System	<p>visualization</p> <ul style="list-style-type: none">- Dynamic imaging protocols for assessment of the kinetic behavior for lesion visualization and characterization- Quantitative evaluation and fast analysis of the data with colorized Wash-In, Wash-out, Time-To-Peak, Positive-Enhancement-Integral, MIPtime and combination maps with inline technology or for offline calculation- Display and analysis of the temporal behavior in selected regions of interest with the included MeanCurve postprocessing application. This includes the capability of using additional datasets as a guide for defining regions of interest even faster and easier than before.- syngo REVEAL (prerequisite: "Inline Diffusion" option) <p>Breast Suite</p> <p>MR Imaging has proven a very high sensitivity for breast lesions and is the gold standard for the examination of silicone implants. Extremely high spatial and temporal resolution can be achieved in very short measuring times (e.g. 1 min) by using iPAT with GRAPPA. Excellent soft tissue differentiation, customized protocols (e.g. with fat saturation or water excitation or silicone excitation), as well as flexible multiplanar visualization allow for fast, simple and reproducible evaluation of MR breast examinations.</p> <p>This package includes:</p> <ul style="list-style-type: none">- High-resolution 2D protocols for morphology evaluation.- High-resolution 3D protocols covering both breasts simultaneously.- Protocols to support interventions (fine needle and vacuum biopsies, wire localization).- Protocols for evaluating breasts with silicone implants.- Automatic and manual frequency adjustment, taking into account the silicone signal.- Detection of the silicone signal either to suppress the silicone signal, if the surrounding tissue is to be evaluated, or to suppress the tissue signal in order to detect an implant leakage.- SPAIR – robust fat sat (robust fat suppression using a frequency selective inversion pulse)- DIXON – 2-point Dixon with 3D VIBE, the following contrasts can be obtained: in-phase, opposed phase, fat and water image.- iPAT with GRAPPA for maximum resolution in short time.- fat subtraction and MIP display.- Offine subtraction, MPR and MIP display.- syngo REVEAL (prerequisite: "Inline Diffusion" option). <p>The Breast Suite also includes:</p> <p>VIEWS (Volume Imaging with Enhanced Water Signal)</p> <ul style="list-style-type: none">- bilateral – both breasts are examined simultaneously- axial – the milk ducts are directly displayed- fat-saturated or water-excited – fat complicates clinical evaluation and is suppressed- isotropic 3D measurement – the same voxel size in all three directions for reconstruction in any slice direction- submillimeter voxel – highest resolution for precise evaluation <p>Ortho Suite</p> <p>Ortho Suite is a comprehensive collection of protocols for joint and spine imaging. MR imaging is especially suitable for avascular necrosis and internal derangements. The protocols included in this Suite can also be applied for imaging of tumors and infections.</p> <p>This package includes:</p> <ul style="list-style-type: none">- 2D TSE protocols for PD, T1 and T2-weighted contrast with high in-plane resolution and thin slices- 3D MEDIC, 3D TrueFISP protocols with water excitation for T2-weighted imaging with high in-plane resolution and thin slices- High resolution 3D VIBE protocol for MR arthrography (knee, shoulder and hip)- 3D MEDIC, 3D TrueFISP, 3D VIBE protocols with water excitation having high isotropic resolution, optimized for 3D post-processing- PD SPACE with fat saturation; and T2 SPACE with high isotropic resolution optimized for 3D post-processing

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Part No. / Product	Description
(Continued) 07584514 MAGNETOM Espree - System	<ul style="list-style-type: none">- Whole spine single-step or multi-step protocols- Excellent fat suppression in off-center positions, e.g. in the shoulder due to high magnet nonhomogeneity- Dynamic TMJ and illo-sacral joint protocol- Susceptibility-insensitive protocols for imaging in the presence of a prosthesis- Multi-Echo SE sequence with up to 32 echoes for the calculation of T2 time maps (calculation included in the Scientific Suite) <p>Pediatric Suite The parameters for pediatric imaging vary significantly in comparison to the parameters for adults. The reasons are developing tissues, body size, faster heart rates and restricted compliance with breath-hold commands. This suite provides dedicated protocols for pediatric imaging by age groups, for example, protocols for imaging tumors, malformations and epilepsy in the brain, cardiac morphology as well as functional imaging and contrast enhanced MR Angiography. This package includes: Neuro<ul style="list-style-type: none">- Brain protocols divided according to age groups and providing best contrast-to-noise ratio with optimized parameters, for example, protocols for under 6 months old infants, protocols for infants between 6 months and one year, protocols for toddlers between one and two years of age.- Excellent T1-weighted contrast with optimized TR, TE and flip angles- Protocols with MTC pulse for post-contrast T1-weighted imaging that provides excellent contrast-to-noise ratio resulting in improved conspicuity of lesions/abnormalitiesCardiovascular<ul style="list-style-type: none">- Cardiac morphology protocols according to age groups and optimized for a small FoV and faster heart rates in congenital heart diseases (CHD)- Imaging protocols for ventricular function as well as valvular and septal defects- ce-MRA as an adjuvant in the assessment of congenital heart disease and vasculature<p>Scientific Suite Scientific Suite supports the scientific oriented user with an easy access to application-specific data for further processing and advanced image computation methods.</p><ul style="list-style-type: none">- Support of USB memory sticks- Access to the file system by means of a secure and convenient browser- Anonymization of patient data- Easy generation of AVIs and screenshots for integration into presentations and training videos- Export function for tables, statistics and signal-time-curves in a common format (MeanCurve, Spectroscopy, CTI evaluation)- Advanced image computation methods such as T2 and T1 time calculation, addition, subtraction, multiplication, division, and integration of images<p>SPACE SPACE is a variable 3D-TSE sequence method with very long echo trains (>200). Tissue contrast is optimized through a flip angle amplitude modulation over the course of the echo train adapted to the specific application. This also substantially reduces SAR, T2, T1, PD contrast as well as Dark Fluid and Bright Fluid contrasts are possible. Due to the extremely high signal efficiency of SII technology, protocols with isotropic submillimeter resolution can be created (resolution within the slice = slice thickness <1mm). The SPACE package includes 3D protocols for any body region (head, cervical spine, thoracic spine, lumbar spine, pelvis, abdomen, MRCP, hip, knee) and for any contrast.</p><p>The sequences, features and techniques for acquisition and reconstruction included in the Tim Application Suite are described in detail below.</p><p>Sequences</p><ul style="list-style-type: none">- Spin Echo (SE): Single, Double and Multi Echo (up to 32 echoes)- Inversion Recovery (IR)- 2D/3D FLASH (spliced GRF)- 2D/3D FISP- 2D/3D PSIF</p>

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(Continued) 07584514 MAGNETOM Espree - System	<ul style="list-style-type: none">- PSIF Diffusion- 2D/3D TrueFISP- Shared Phases Real-time TrueFISP- 2D/3D MEDIC (Multi Echo Data Image Combination)- 2D/3D TurboFLASH (MPRAGE)- 3D VIBE (Volume Interpolated Breath-hold Examination) with interpolation and quick fat saturation- 2D/3D TSE- Echo Shaving technique for dual-contrast TSE enhancing speed by using acquired echoes in both proton density and T2 Images simultaneously.- Speeds up dual-contrast TSE by almost a factor of 2- 2D/3D RESTORE TSE- SPACE for 3D imaging with high isotropic resolution with T1, T2, PD, and dark fluid contrast- 2D/3D TurboIR (TrueIR, STIR, dark fluid T1 and T2)- 2D/3D HASTE (Half-Fourier Acquisition with Single Shot Turbo Spin Echo)- 2D/3D HASTE IR for fat or fluid suppression- 2D/3D Single Shot TSE for heavy T2 weighting- 2D/3D Time-of-Flight (ToF) Angiography, single and multi-slab- 2D/3D Time-of-Flight (ToF), triggered and segmented- 2D/3D Phase Contrast and multi-slab Phase Contrast Angiography- 2D/3D Phase Contrast triggered- ce-MRA sequences- BEAT tool- TrueFISP segmented- 2D/3D FLASH segmented- Magnification-prepared TrueFISP (IR, SR, FS)- IR T1 scout- Retrogating- Single Shot EPI (SE and FID)- 2D/3D Segmented EPI (SE and FID)- 3D GRE fieldmapping <p>Tim Application Suite: Acquisition and Reconstruction Techniques</p> <ul style="list-style-type: none">- Diffusion-weighted imaging- Perfusion imaging- fMRI BOLD imaging- 1D/2D PACE (Prospective Acquisition Correction)- Whisper Mode for scanning with reduced noise; beneficial for children, non-cooperative, or anxious patients- LTA (Long Term Data Averaging) technique for motion and flow artifact reduction without increasing scan time- Elliptical scanning reduces scan time for 3D imaging- Selectable centric elliptical phase reordering in the user interface for special applications- Inversion Recovery to null the fat or fluid signal and to obtain high T1-weighted image contrast- Dark-blood inversion recovery technique that suppresses blood signal- Saturation Recovery for 2D TurboFLASH, gradient echo, and T1-weighted 3D TurboFLASH with short scan time (e.g. MPRAGE)- Presaturation Technique: RF saturation pulses to suppress flow and motion artifacts. Up to six saturation bands may be positioned in any orientation- Tracking SAT Bands maintain constant saturation of various and/or arterial blood flow, e.g. for 2D/3D sequential MRA- Fat Saturation: Additional frequency selective RF pulses, used to suppress bright signal from fatty tissue.

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MAGNETOM Espree - System	<p>Two selectable modes: weak, strong</p> <ul style="list-style-type: none">- Water Saturation: All sequences used for fat saturation can be used to suppress the water signal- Quick FatSat, for time-efficient fat saturation- SPAIR – robust fat and (robust fat suppression using a frequency selective inversion pulse)- DIXON - 2 point Dixon with 3D VIBE. the following contrasts can be obtained: in-phase, opposed phase, fat and water image.- Fat Excitation: Spectral selective RF pulses for exclusive fat excitation- Water Excitation: Spectral selective RF pulses for exclusive water excitation- Silicon detection for breast examinations- MTC (Magnetization Transfer Contrast): Off-resonance RF pulses to suppress signal from certain tissues, thus enhancing the contrast used e.g. in MRA- TONE (Tilted Optimized Non-saturating Excitation): Variable excitation flip angle to compensate inflow saturation effects in 3D MRA. TONE pulse are selectable depending on the desired direction of flow sensitivity- GMR (Gradient Motion Rephasing): Sequences with additional bipolar gradient pulses, permitting effective reduction of flow artifacts- Freely adjustable receiver bandwidth, permitting studies with increased signal-to-noise ratio- Freely adjustable flip angle: Optimized RF pulses for image contrast enhancement and increased signal-to-noise ratio- Half-Fourier technique to further reduce the scan time (by approximately half), while maintaining the same spatial resolution- Rectangular FoV capability from 10% to 100% in steps of 1%, enables reduction in scan time by reducing the number of phase encoding steps while maintaining the same in-plane resolution- Multi-Slice-Multi-Angle: Scans in different planes can be acquired simultaneously in a single sequence, such as for the acquisition of superimposed orthogonal survey images (Scout) or studies in the spinal region, in order to image several vertebral disks exactly in their transverse orientation- The "Optimized EC protocols" (External Compound) license provides protocols for reducing disturbances in images caused by foreign material.
	<p>Installation:</p> <ul style="list-style-type: none">- The relatively lightweight design of the MAGNETOM Espree eliminates the need for structural building reinforcements in most cases often allowing quick floor installation.- The compact design reduces the required space to only 30 sqm (323 sq. ft.) for the entire installation.- Room height clearance is only 2.42 m (8').- The MAGNETOM Espree allows siting of the system without a dedicated computer room.- The MAGNETOM Espree combines state-of-the-art performance with peace of mind. High system availability is ensured by the expert, highly trained Siemens MR service engineers.- Your Siemens service contract (not included in the basic unit) offers a comprehensive range of benefits such as UpTime Remote Diagnostics for improved productivity and maximum uptime.
	<p>The MAGNETOM Espree Magnet:</p> <ul style="list-style-type: none">- The 1.5 T MAGNETOM Espree magnet utilizes a Stainless-Steel cryostat due to its proven structural reliability and excellent behavior in minimizing artifact-inducing eddy currents- Magnet Length is only 120 cm while the homogeneity allows for up to 45x45x30 cm³ FoV imaging. This is unique for such a short magnet and provides excellent image quality over a wide range of applications- Homogeneity: Guaranteed < 4 ppm Vrms (typ. < 2.9 ppm Vrms, Vrms = Volume root mean square) in a elliptical volume up to 45x45x30 cm³ using the most accurate 24 plane method with 20 sampling points per plane. The 24 plane plot method measures the largest number of sampling points in the industry and provides accurate values that are not subject to aliasing (which may occur with other plotting methods; the Vrms technique is more representative than the older peak-peak methods)- The MAGNETOM Espree magnet has the 6th generation of active shielding technology with continuous winding coil technology, enabling the extreme reduction in magnet length. The magnet has patented External Interference Shielding (E.I.S.). E.I.S. protects against moving external interferences caused by ferromagnetic

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(Continued) 07584514	objects (e.g. elevators, cars) and works continuously (especially also during scanning when you need it most) to maintain premium image quality
MAGNETOM Espree + System	<ul style="list-style-type: none">- The magnetic 0.5 mT fringe field is 2.5 m (8'2") in the radial direction (x, y) and 4.0 m (13'1") in the axial direction (z) for easy sitting most often without additional shielding- The system is equipped with "Zero Helium Ball-Off" technology. During typical, undisturbed clinical operation the ball-off rate is 0.0 l/m depending on the sequences used and examination time, and provided the system is serviced in regular intervals. The helium capacity is about 900 liters.- Low Magnetic Weight of: 3800 kg (8377 lbs), which, in many cases, allows sitting on upper floors or older rooms without special floor reinforcement.- Hybrid Shim System: Active including linear terms (with 3 electric linear shim channels) and second-order (with 5 second-order electric and superconductive shim channels) for precise additional fine-tuning of homogeneity once the patient is inside the system - and Passive shims for maintaining very high homogeneity and excellent image quality over a wide range of applications. Online shimming is performed using 3D shim, a patient and coil specific technique which optimizes the homogeneity for each patient in normally less than 20 seconds.
	MAGNETOM Espree Digital Radio Frequency System: <ul style="list-style-type: none">- The digital signal processing system operates at 63 MHz resonance frequency and utilizes digital filtering, digital quadrature demodulation as well as digital controls for RF amplitude stabilization for superior resolution and image quality- The RF transmitter incorporates a compact, maintenance-free high-performance solid state amplifier with integrated water cooling.- The receiver operates over a very large 1 MHz bandwidth for outstanding sampling speed and high signal-to-noise ratio. The high bandwidth enables fast imaging techniques including Single Shot EPI.- The transmit amplitude digitization resolution is 50 ns and the receive amplitude digitization resolution is 100 ns- Dynamic gain control eliminates the need for receiver adjustments, thus saving up to 30 seconds for every study- The system has built-in bandwidth flexibility which compensates for natural magnetic field drift for up to a 5 year period, without the need for adjustments
	MAGNETOM Espree - Table and System controls <p>Two ergonomically designed tableside control units (one on each side of the front magnet cover) are located at a comfortable level, and control a number of patient table and system functions.</p> <p>Illuminated control buttons for:</p> <ul style="list-style-type: none">- "Table up/in" and "table out/down" buttons. Horizontal speed can be accelerated with an additional "Speed" button. One button sequentially transitions from the "table up" to the "table in" motion, while the other sequentially transitions from the "table out" to the "table down" motion- "Table Stop" button- "Localizer" button activates and deactivates the laser for exact patient positioning. Light localizer for accurate patient positioning- "Auto-Center" button. If the laser localizer has been used, the system places the selected location in isocenter. If the laser localizer has not been used, the system centers to the center of the Head matrix coil- "Home Position" button drives the table all the way out, but not down. Useful for repositioning the patient or at the end of an examination- "Fan" button controls the ventilation within the patient opening. The fan has 4 settings: off, low, medium, high- "Light" button controls the brightness within the magnet aperture. The light has 4 settings: off, low, medium, high- "Scan Start" button starts a pre-loaded scan. Useful, e.g., for breath-hold, when an operator is inside the examination room- Display of connected coils, fan and lighting levels
	MAGNETOM Espree standard surface coils: Head Matrix Coil

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Neck Matrix Coil	<p>The Neck Matrix Coil is a fully iPAT-compatible no-tube coil. It has a 4-element design with 4 integrated preamplifiers that are arranged in 2 clusters of 2 coil elements each, and can thus be operated as a 2-channel (CP Mode) or 4-channel (Dual Mode, Triple Mode) coil.</p> <p>The upper coil part is removable for easy patient handling. The lower coil part may remain on the table for most of the examinations. The Head Matrix, Neck Matrix and Spine Matrix coils are smoothly integrated into the patient table, thus enabling high flexibility in imaging and facilitating less coil changes and easy handling when switching patients.</p> <p>The Neck Matrix Coil through its easy combinability with the Head Matrix and Spine Matrix Coil can be used for applications like neck or cervical spine examinations, Imaging of the Larynx/Eosophagus and Mediastinum, MR Angiography, combined head/neck examinations and thus takes the place of a Neurovascular coil.</p> <p>Besides the typical combination with the Head Matrix and Spine Matrix Coil also the optional Body Matrix coils (up to 4) and PA (Peripheral Angio) Matrix Coil can be combined for whole body imaging. Additionally, the combination of flexible coils like the CP Flex coils is possible.</p> <p>The dimensions of the Neck Matrix Coil are 190 mm x 350 mm x 332 mm (L x W x H); its weight is about 2.6 kg (5.7 lbs).</p>
Spine Matrix Coil	<p>The Spine Matrix Coil is a fully iPAT-compatible no-tube coil. It has a 24-element design with 24 integrated preamplifiers that are arranged in 8 clusters of 3 coil elements each, and is operated as a 8-channel coil (CP Mode), 16-channel coil (Dual Mode) or 24-channel coil (Triple Mode).</p> <p>The Spine Matrix Coil may remain on the table for almost all examinations. The Head Matrix, Neck Matrix and Spine Matrix coils are smoothly integrated into the patient table, thus enabling high flexibility in imaging and facilitating less coil changes and easy handling when switching patients.</p> <p>The Spine Matrix Coil can be used for high resolution imaging of the whole spine as well as for various other applications through its perfect combinability with the Head Matrix and Neck Matrix Coil and also the optional Body Matrix coils (up to 4) as well as the PA Matrix Coil (Peripheral Angio Matrix) and all flexible coils (e.g. CP Flex coils).</p> <p>The dimensions of the Spine Matrix Coil are 1165 mm x 485 mm x 32 mm (L x W x H). Its weight is about 11 kg (24 lbs).</p>

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(Continued) 07584514 MAGNETOM Espree - System	<p>MAGNETOM Espree Computer and Intercom system:</p> <p>The PC based computer system uses the intuitive syngo MR user interface. The computer and intercom system includes:</p> <ul style="list-style-type: none">- High-performance image processor with >4 Intel Xeon Quad Core CPU with 2.83 GHz clock-pulse rate, >8 GB RAM, one hard disk (146 GB) for system software and 2 hard discs for raw data storage (each 146 GB), one CD/DVD-RW drive- >= 7324 recons per second for online Fast Fourier Transformation (FFT) of a 256² matrix full FoV or 27776 recons per second (256² FFT, 25% recFoV).- High-performance host computer with 2 x Intel Xeon Quad Core CPU with 2.83 GHz clock-pulse rate, 4 GB RAM, one 73 GB system hard disk, one 73 GB hard disk for the image database, one 73 GB hard disk for about 110,000 images (256² x 512² matrix, non-compressed), one CD-R writer for non-compressed image storage (CD approx. 4,000 Images 256², DVD approx. 25,000 images 256²) on CD/DVD-R in DICOM standard (ISO 8660 Level 1) or storage of other data like avi files, CD-ROM or DVD-R drive and Floppy disk drive and electronic mouse. The combination of host computer and image processor offers a truly powerful imaging system designed for large matrix sizes of up to 1024 x 1024. The unrestricted multi-tasking capability allows time-saving parallel scanning and reconstruction.- High resolution color LCD flat screen monitor for 19" with 1280 x 1024 pixel display, integrated gamma correction for optimum display of radiographic grayscale and automatic backlight control for long-term brightness stability.- The intercom system includes an ergonomically designed patient communication unit for desktop positioning on the syngo Acquisition Workplace control board and pneumatic headphones for the patient during examination; the intercom unit controls emergency table stop, volume control of speaker and headphones in examination room, volume control of speaker in control room, response to the patient's activation of the assistance-call button and provides a connection to an external audio system (external audio system is not included in the basic unit) for music playback. <p>MAGNETOM Espree syngo MR Software:</p> <p>MAGNETOM Espree runs the syngo MR software, syngo, the unique software platform for medical applications and integrates all patient related information, physiological and imaging data across the entire clinical workflow. In every workplace syngo's innovative user interface allows the operator to know intuitively what to do. Its intelligent automated features accelerate your examination, enabling smooth, efficient workflow, across modalities, departments and people. Siemens brought intelligence to MR. With inline technology, Phoenix, Intelligent Coil Control and a variety of other features the system is geared for optimal high throughput, high resolution scans with excellent image quality.</p> <ul style="list-style-type: none">- syngo based, graphical user interface offers optimized clinical workflow. Parallel working and one-click exams are supported efficiently.- Parallel scanning and reconstruction are standard. Images can be loaded and used for graphical slice planning during reconstruction- Task card approach enables structured workflow with multiple patients by easy image exchange between tasks.- In addition to the three segments of graphical slice positioning the interface shows small reference views from other series. The drag&drop functionality is fully supported. As soon as images are reconstructed they can be used for slice positioning. Images can be automatically loaded into the User Interface and displayed in Movie mode (Inline Movie)- Prepared exam-oriented scan programs can be customized to fit clinical requirement in daily routine, are stored in a hierarchical structure- The unique Phoenix technique is the easiest way to exchange protocol data. It supports intelligent extraction of sequence parameters from images acquired on a MAGNETOM Espree system- Software-controlled patient table movement by soft buttons or automatically within the scan protocols. Almost all table control functions, including ventilation and illumination of the magnet bore can be controlled from the operator console.- With scan@center the table automatically moves into the magnet's isocenter for measurement. This allows for excellent image quality, especially with fat saturation.- Automatic voice commands, e.g. for breath-hold examinations- The context-sensitive "Online Help" function and the syngo Scan Assistant offer support and propose

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Part No. / Product	Description
(Continued) 07584514 MAGNETOM Espree System	<p>solutions to MR specific questions and parameter conflicts.</p> <ul style="list-style-type: none">- Intelligent Coil Control supports and automates the use and administration of receiving coils:- detection of position of the fixed-position and flexible-position receiving coils- graphic display of the receiving coil position within the images that are used for slice planning.- graphic selection of receiving coils directly from the syngo user interface- Automatic Coil Select: coils in the field of view are selected automatically.- Processing instead of post-processing by the Siemens-unique Inline Technology. Image data is processed on-the-fly, e.g., for calculation of subtraction, MIP, standard deviation, wash-in and wash-out maps etc.- 1D/2DPACE (Prospective Acquisition Correction) – the motion correction for breath-hold examinations and free breathing.- IPAT (Integrated Parallel Acquisition Techniques) further increase the acquisition speed compared with conventional standard scan techniques. IPAT is fully compatible with the MAGNETOM Espree surface coils. Due to the Matrix coil technology IPAT gives highest flexibility even for large scan ranges. The Tim Assistant helps to make Parallel imaging easier by automatically recommending the appropriate PAT factor for the selected application. Tim Assistant always knows the selected coil elements and the MR protocol, ensuring the optimal IPAT configuration for each application. The required calibration data are gained in a time-saving way during measurement (Auto Calibration). For PAT averages to suppress motion artifacts, self-calibration is used without loss of time.- The IPAT image reconstruction is performed by high performance computer hardware and the optimized GRAPPA algorithm in extremely short time.- The Image Viewing Card allows a simultaneous management, viewing and processing of up to three patients or comparisons of different studies or patients.- Dynamic Analysis evaluation software allows the calculation of functions such as addition/subtraction, division/multiplication, ADC maps, T1 and T2, z-Score (t-Test), Time-to-Peak maps (TTP) and standard deviation.- Mean Curve can be used to evaluate dynamic examinations, e.g. employing contrast media.- The 3D Post-Processing Card includes the basic functionalities for manual MPR, MIP, Min P and SSD image reconstructions (Multiplanar Reconstruction, Maximum Intensity Projection, Minimum Intensity Projection and Shaded Surface Display).- Efficient filming is possible directly from the different Task Cards and can be controlled by minimum user interaction. There is a wide range of different film layouts with regular and irregular formats. The Mother and Child function allows to display the position of the measured slice in a small image in the upper right-hand or the lower left-hand corner of the larger image (image within an image).- With the Patient Browser the images can be freely positioned on the film via drag&drop. Pan&zoom and windowing of images on the film sheet is also possible. (Camera is not included)- Supports storing of a viewing tool (DICOM Viewer) together with images on a DICOM CD to be handed out to the patient.- Argus viewer can be used to display cine studies. The Argus Viewer allows users to load a large list of dynamic data sets and view them comfortably. This is a feature that greatly reduces the reading and review time for cardiac MR studies.- Additionally, integrated 8on1 movie provides efficient review of data.- AVI creation of movie loops (up to 40s!) is possible.- Studies can be easily networked and transferred using the standard DICOM 3.0 protocol for efficient support of workflow. The following standard functions are supported: send/receive, query/retrieve, basic print for DICOM-compatible laser cameras (camera is not included in the basic unit), DICOM Worklist, DICOM Storage Commitment (SC); as a separate option the DICOM MPPS (Modality Performed Procedure Steps) functionality is offered for efficient organization of workflow within HIS/RIS systems.
14413650 T-class #Tim	<p>syngo TimCT</p> <p>The unique syngo TimCT turns T-class MR systems into the first scanners with continuous table above functionality – making MR as simple as CT.</p> <p>syngo TimCT provides a simple and fast workflow for MR examinations of large anatomies since no time is lost for table moves and additional planning between stations. The image quality directly profits from syngo TimCT as images are always acquired at the iso-center of the magnet – the most homogeneous spot. The seamless scanning of large FoVs removes boundary artifacts inherent to stepping techniques.</p> <p>syngo TimCT is built on the following Unique Tim Technology features:</p> <ul style="list-style-type: none">- Connection of multiple Matrix coils for full anatomical coverage with the highest SNR. Local coils provide high resolution imaging as well as high speed with Parallel Acquisition Technique (PAT).

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Part No. / Product	Description
(Continued) 14413850 T-class #Tim	<ul style="list-style-type: none">- Flexible coil combination for seamless anatomical coverage.- Automatic coil position detection and selection of coils (AutoCoil Select).- syngo TimCT is also built on the highly advanced patient table of Tim systems.- High positioning accuracy of the table.- RF shielded table drive to avoid any interference that could lead to image artifacts. <p>syngo TimCT FastView syngo TimCT FastView is standard on all T-class MR systems. It provides "one go" localizer images of large body regions such as the whole spine, the whole abdomen and up to the entire body. syngo TimCT FastView acquires the extended Field-of-View in one volume with isotropic resolution. Transverse, coronal and sagittal reformats of the volume are calculated inline and allow prescribing subsequent examinations.</p> <p>Tim Workflow Suite The Tim Workflow Suite covers your needs to simplify and speed up your daily work at the scanner. Slice prescription can be done in an efficient way using "Set-n-Go" protocols. The Tim Workflow Suite allows planning of several stations at once e.g. on-line composed localizer images. Fully supports scan@center and Phoenix functionality.</p> <ul style="list-style-type: none">- Ready to use "Set-n-Go" protocols for different clinical questions such as whole spine.- Dedicated Tim Planning Suite User Interface with optimized layout for slice prescription.- Integrated toolbar for fast advanced slice planning: FoV-Plus, FoV-Minus, Align Parallel, Align Fields-of-View. Images resulting from extended Field-of-View multi-step exams can be composed inline with fully automated anatomical or angiographic composing algorithms. Adjacent coronal or sagittal images are registered and fused into one image with full coverage of the extended Field-of-View.- Images can also be composed offline either fully automated or manually.- Composed images can be automatically loaded into Graphical Slice Positioning for slice prescription purposes. <p>Imaging of Fields-of-View exceeding the intrinsic scanner's Field-of-View becomes as easy and straight forward as imaging of regular Fields-of-View.</p> <p>The Tim Workflow Suite also allows for the automatic real-time calculation of trace-weighted images and ADC maps with Inline Technology – and support syngo REVEAL, diffusion in the body.</p> <p>Tim Workflow Suite includes:</p> <ul style="list-style-type: none">- Composing- Inline Composing- Inline Diffusion- Tim Planning Suite <p>The Tim Whole Body Suite enables for the first time true whole body MR scanning for head-to-toe imaging.</p> <p>The Tim Whole Body Suite features:</p> <ul style="list-style-type: none">- Unique telescopic patient table which enables a full Field-of-View of up to 205 cm (6' 9") (system dependent) as the standard system, additional space in the scanner without increasing total system length. No additional table extension is required. The table top has the same length as the standard system without whole body capabilities. Additional free space is only required at the rear part of the magnet to ensure, that the table movement is not limited by the composing wall.- Table movement to its full extent can be remotely controlled from the operator console either by the operator or by sequence protocols.- Protocols and programs for whole body MR angiography and morphology e.g. for metastasis visualization and preventive care examinations.<ul style="list-style-type: none">- Whole body MR Angiography is possible with high speed, high resolution and high image contrast on the entire volume combining high speed gradients and PAT.- The large FoV of up to 205 cm (system dependent) supports the assessment of metastases distribution in the body with sequences such as TIRM (Turbo Inversion Recovery). <p>Whole body imaging with highest image quality without patient repositioning and without the need to change a single coil, not even once, this means whole body imaging without compromise.</p> <p>The T-class package contains also the following components:</p>

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Part No. / Product	Description
(Continued) 14413650 T-class #Tim	<ul style="list-style-type: none">- Offline 3D distortion correction filter for high spatial accuracy e.g. for neuro intra-operative imaging, stereotactic planning or radiotherapy planning.- DICOM MPPS (Modality Performed Procedure Steps) for efficient organization of workflow within HIS/RIS systems. MPPS allows to communicate examination data from the MR system to an information system (e.g. RIS system) and to provide data for billing, documentation and planning purposes to the information system.- Image filter software for adaptive filtration of MR images. The image filter has three levels that can be changed individually using the smoothing and edge enhancement parameters. The images can be filtered inline or offline, as a result of the inline filtration the filtered and unfiltered image will be displayed directly after measurement. With offline filtration, individual or multiple images or series can be filtered. Filtration will be performed in the background.- PhoenixZIP (delivery with SW syngo MR B15) enables easy transfer of complete scan programs. Apart from protocol data of the measured protocols, PhoenixZIP also includes their links to each other. So with PhoenixZIP it is possible to precisely reproduce programs measured once and repeated examinations are efficiently facilitated.- DICOM Study Split (delivery with SW syngo MR B15) enables the distribution of an examination to different studies directly at the MR scanner. With this functionality, different requirements e.g. for different anatomies, can be measured time-efficiently in one examination and then stored in different studies for reporting.
14401446 Tim [76x18] Z-engine #Es	<p>Tim [76x18] performance level has:</p> <ul style="list-style-type: none">- Up to 76 simultaneously connected coil elements which can be seamlessly integrated into one examination- 18 independent RF channels (Analog/Digital Converters, ADCs) <p>Combinations of receiving coils with up to 76 coil elements in total can be connected simultaneously. They can be seamlessly integrated into the exam routine without repositioning the patient or even changing a single coil. Up to 18 coil elements can be used simultaneously within one scan.</p> <p>This multi-element Matrix coil technology is an essential part supplementing Total Imaging matrix. The numerous Matrix Coil elements enable advanced iPAT capabilities. Full iPAT applied throughout the large FOV without patient repositioning or changing the coil setup improves throughput. Multi-directional, i.e. three dimensional, high-speed, high-resolution iPAT in the head-foot, anterior-posterior or left-right directions benefit from the multiple coils and Matrix Coil modes. The user selectable Matrix Coil Modes (CF, Dual and Triple Mode) enable a flexible operation of the Matrix Coils depending on the application profile. iPAT with acceleration factors up to 4 (one direction) or 12 (in two directions with iPAT2, optional) help to speed up acquisitions. The easy-to-use Tim Assistant provides optimized iPAT settings.</p> <p>Z-engine Gradient System</p> <p>Siemens Z-engine are actively shielded, water-cooled world-class gradients. The design incorporates acoustic noise reduction measures without compromising gradient performance. The Z-engine gradients have:</p> <ul style="list-style-type: none">- Maximum gradient amplitude of 23 mT/m, per axis, i.e. 67 mT/m vector summation gradient performance,- Max. slew rate 100 T/m/s per axis, i.e. 173 T/m/s vector summation,- Minimal rise time 330 µs, from 0 to 33 mT/m amplitude- Max. output voltage for each of the gradient axes 1200 V- Max. output current for each of the gradient axes 625 A- Separate cooling channels that simultaneously cool primary and secondary coils allow the application of extremely gradient intensive techniques in a new class of performance.- 100% duty cycle for fast and demanding techniques such as ultra-short TE MRA in continuous up-spiral, 3D slice single breath-hold liver studies and EPI imaging techniques (all optional in appropriate clinical packages).- Variable Field-of-View selection from 0.5 cm to 45 cm for optimum coverage and highest resolution in diagnostics. The minimum slice thickness in 2D and 3D is 0.1 mm and 0.05 mm, respectively.- Acquisition of sagittal, transverse, coronal, oblique and double oblique slices with highest resolution.- The extremely compact water-cooled gradient amplifier features a modular expandable design with excellent linearity and pulse reproducibility. It is digitally controlled and has very low switching losses due to ultra-fast solid state technology.

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Part No. / Product	Description
14401447 Label Tim [76x18] #Es	The label displays: MAGNETOM Espree Tim [76x18]
08464872 PC Keyboard US english #Av	The keys of the numerical key panel are assigned to syngo-specific functions and labeled with the corresponding syngo icons. The keyboard supports the country specific special characters.
14401434 Cover Satin White #Es	This unique color selection enhances the visual appeal of the new system design from MAGNETOM Espree, thereby creating an enticing, patient-friendly impression. The control panel and table display have been neatly integrated into this main face plate. These aesthetically pleasing controls are also well illuminated for easy visual recognition. In particular, the table elevator cover and the adjoining asymmetric upper left cover have also been designed to promote a modern visual appearance. This combination of ingenuity and practical design as presented in Satin White color simply makes MAGNETOM Espree an overall visually appealing system.
14401451 Standard Patient Matrix Table #Es	The patient table is mounted directly to the magnet assembly. The table can support up to 250 kg (550 lbs) patients with unrestricted vertical and horizontal movement. The cantilevered table design gives the system a light and unimposing appearance while providing unobstructed foot space for attending staff and better access to the patient. The patient table can be lowered to a minimum height of 47 cm ("8.5") from the floor, for easier patient positioning and better accessibility for geriatric or pediatric patients. The tabletop travels beyond the rear end of the system, enabling additional patient access. For a seamless integration of multiple surface coils 10 coil connector slots are embedded in the table.
14407344 4-channel Flex Coil Pkg #Tim (1.5 sys)	<p>4-channel Flex Coil, large Light-weight, very flexible, iPAT compatible, 4-element no-tune receiver coil made of soft and smooth material. It is used for examinations of extremities (e.g. medium to large shoulder, hip or knee) and for abdominal examinations. The coil can be wound around or placed flat on top of the area of interest. This rectangular coil measures approx. 21 cm x 52 cm and connects to the Flex Coil Interface. The optional comfort kit enhances positioning flexibility and helps minimize involuntary patient motion artifacts.</p> <p>4-channel Flex Coil, small Light-weight, very flexible, iPAT compatible, 4-element no-tune receiver coil made of soft and smooth material. It is used for examinations of the upper and lower extremities (e.g. small to medium shoulder, wrist, elbow or ankle). The coil can be wound around or placed flat on top of the area of interest. This rectangular coil measures approx. 17 cm x 36 cm and connects to the Flex Coil Interface. The optional comfort kit enhances positioning flexibility and helps minimize involuntary patient motion artifacts.</p> <p>4-channel Flex Coil Interface Interface with 4 integrated preamplifiers for the connection of the following coils:</p> <ul style="list-style-type: none"> - 4-channel Flex Coil, large - 4-channel Flex Coil, small - Loop Coil, large (optional) - Loop Coil, medium (optional) - Loop Coil, small (optional) <p>The interface is not permanently mounted and therefore allows free positioning of the flexible coils as required by the examination procedure.</p> <p>The 4-channel Flex Coils can also be combined with a large variety of further coils, e.g.:</p> <ul style="list-style-type: none"> - All Matrix coils - All flexible coils - CP Head Array coil

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Part No. / Product	Description
08484980 PMU Bluetooth Physio Control #Av	<p>The physiologic signals are displayed on the console monitor. They can also be displayed on the optional exam room PMU display.</p> <ul style="list-style-type: none">- Cable free signal transmission allows robust triggering and high patient comfort especially in cardiac imaging.- Wireless VCG acquires ECG signal from two projection directions, for easy identification of the R-wave with superior gradient interference suppressor via digital signal processing.- 30 ECG - disposable electrodes are provided- Wireless red-light pulse sensor for peripheral pulse signal- Wireless pneumatic cushion to be placed on the chest or abdomen (for respiratory triggering)- Signals can be transmitted to an external MRI compatible patient monitoring system (Option) via a respective receiver interface in the patient monitoring system- Wireless Physiological Signal Display<ul style="list-style-type: none">- ECG (2 channels I and / or aVF)- Pulse- Respiration- External Trigger Input Display
14402526 BLADE #Tim	<p>BLADE supports T2-weighted, dark fluid and STIR contrast imaging as well as inversion recovery T1-weighted imaging.</p> <p>BLADE uses an acquisition scheme which is less sensitive to motion and flow than the scheme used by conventional TSE. In the head additionally a 2D (in-plane) motion correction can be used to further reduce artifacts resulting from patient motion during the scan.</p> <p>Complete protocols for brain studies in uncooperative patients are provided including all orientations and T2 weighted, dark fluid and STIR contrasts.</p> <p>Dedicated protocols for soft tissue/breast imaging are provided.</p>
08484815 Body Matrix Coil #Av	<p>The Body Matrix Coil has a 6-element design with 3 integrated preamplifiers that are arranged in 2 clusters of 3 coil elements each. Depending on the user selectable Matrix Coil Mode it is operated as a 2-channel coil (CP Mode), 4-channel coil (Dual Mode) or 6-channel coil (Triple Mode). The Body Matrix Coil will be typically used together with the Spine Matrix Coil with which it operates in an integrated fashion as 12-element design, creating 2 rings of 6 elements each.</p> <p>No tuning of the fully iPAT compatible Body Matrix Coil is necessary.</p> <p>For examinations where larger anatomical coverage is required, several Body Matrix Coils can be used simultaneously. Up to 4 Body Matrix Coils can be used simultaneously, typically 2-3 will be used for coverage of the entire abdomen or in the case of large patients.</p> <p>The Body Matrix Coil is typically used in combination with the Spine Matrix Coil for examinations of the thorax, abdomen, pelvis or hip. The Body Matrix Coil can also be used for cardiac applications. Through its perfect combinability with the Spine Matrix Coil, further Body Matrix Coils, the optional PA Matrix Coil (Peripheral Angio Matrix), but also the Head Matrix and Neck Matrix Coil as well as all flexible coils (e.g. CP Flex coils, Endorectal coils) it contributes for all large-field-of-view applications including whole-body imaging.</p> <p>The dimensions of the Body Matrix Coil are 322 mm x 520 mm x 40 mm (L x W x H). Its weight is about 2 kg (4.5 lbs), whereas the patient feels as little weight as 950 g (2 lbs).</p>
08484823 PA Matrix Coil #Av	<p>The PA Matrix Coil has a 16-element design with 16 integrated preamplifiers that are arranged in 8 CP pairs, i.e. 4 levels with 2 CP elements each, and is operated as a 8-channel coil.</p> <p>A uniquely designed non-ferromagnetic coil cart for safe coil storage is included. The PA Matrix Coil is also shipped with a set of positioning cushions for proper handling.</p> <p>No tuning of the fully iPAT-compatible PA Matrix Coil is necessary.</p> <p>With a length of about 1 m, both legs are covered from the iliac artery level down to the foot arch vessels using multiple, flexible wings. For the visualization of the abdominal aorta and the iliac bifurcation it can be combined with the Body Matrix Coil.</p> <p>Besides the typical combination with the Body Matrix and Spine Matrix Coil, but also the Head Matrix and Neck Matrix Coil as well as all flexible coils (e.g. CP Flex coils, Endorectal coils) it contributes for all large-field-of-view</p>

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Part No. / Product	Description
(Continued) 08464823 PA Matrix Coil #Av	<p>applications including whole-body imaging. For peripheral angiography the PA Matrix coil will be typically used in face-first position, but also head-first positioning for whole-body examinations is possible (optional Tim Whole Body Suite required).</p> <p>The dimensions of the PA Matrix Coil are 970 mm x 300-500 mm x 270 mm (L x W x H), its weight is about 5.75 kg (13 lbs).</p>
14405244 Shoulder Array Coil #Es	<p>The IPAT compatible receive shoulder array coil is adapted to the shape of the shoulder. To obtain maximum image quality for different body shapes two different sized coil tops are included:</p> <ul style="list-style-type: none"> - 165 mm (6.5 in) diameter for small and medium sized shoulders - 200 mm (7.9 in) diameter for large shoulders <p>The coil top can be used either for left or right shoulders. It features slideable attachment to the base plate and can easily be adjusted for comfortable positioning. The coil excels in highest resolution imaging with exceptional signal/noise ratio.</p>
14407261 MR Workplace Container, 50cm	<p>The table design matches the MED-wide uniform design with silver-finished nice, less of friendly colors matching the Siemens color pattern for MAGNETOM and SOMATOM.</p> <p>Table height 72 cm, matching the syngo Acquisition Workplace and syngo MR Workplace console table, for installation in the operator room either directly to the left or right of the syngo Acquisition Workplace or syngo MR Workplace console table or separately.</p> <ul style="list-style-type: none"> - Width 50 cm - Depth: 80 cm - Height 172 cm <p>Alternatively this casing is also suited for the Recon Image processor (except for the MR systems with the new Tim generation; there the Recon Image processor is always placed inside the electronics cabinet).</p>
08465481 Chiller, 60 Hz #Av	<p>Chiller KKT KSC 215</p> <p>Function: Delivering dedicated primary chilled water in cases where no chilled water supply is available on site. Air-cooled version, for outdoor installation up to a maximum distance of 25m from connection to the IFP/ACC.</p> <p>The cooling capacity of the chiller is 80 kW, the chilled water temperature is 20°C, the water flow is 130 l/min. The soft start option has to be ordered if the chiller is used in combination with an UPS system.</p> <p>Ambient operation temperature: -20 degrees C through +48 degrees C</p> <p>Connection voltage: 48 KVA</p> <p>Voltage: 480 V / 60 Hz</p> <p>Fuse rating: 63 A</p> <p>Power consumption: 58.5 A</p> <p>Dimension: 1830 mm x 3060 mm x 860 mm (height x width x depth).</p> <p>Weight: 1150 kg</p> <p>Noise level in 10.0 m distance at outside temperatures of: 21°C 50 dB(A) 32°C 55 dB(A) 48°C 61 dB(A)</p> <p>IFP (Interface Part):</p> <p>Main functions of the IFP: Interface function between the KKT chiller and the ACC cabinet. Water supply for the cold head compressor, which is connected directly to the IFP. Additional devices like built in flow meters, pressure gages and a strainer are to guarantee a precise function of the cooling water circuit, especially for the cold head compressor. The connection has to be established (locally with 2" pipes, Two 5m hoses (forward and return) to connect the IFP to the ACC are part of the delivery volume).</p> <p>Dimension: 800 mm x 1050 mm x 200 mm (height x width x depth). Weight: 40 kg</p>

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Part No. / Product	Description
(Continued) 08465481 Chiller, 60 Hz #Av	Purchase price does not include the piping and installation of the waterchiller; this is responsibility of the customer. The Warranty Service Provider will perform the waterchiller start up, on behalf of the manufacturer R&T Kraus, upon completion of the initial waterchiller piping and installation by the customer.
MR_STD_RIG_INST MR Standard Rigging and Installation	MR Standard Rigging and Installation This quotation includes standard rigging and installation of your new MAGNETOM system. Standard rigging into a room or ground floor level of the building during standard working hours (Mon. – Fri./ 8 a.m. to 5 p.m.) It remains the responsibility of the Customer to prepare the room in accordance with the SIEMENS planning documents. Any rigging requiring a crane over 80 tons and/or special site requirements (e.g. removal of existing systems, etc.) is an incremental cost and the responsibility of the Customer. All other "out of scope" charges (not covered by the standard rigging and installation) will be identified during the site assessment and remain the responsibility of the Customer.
4MR5142869 Armrest #MR	An MR-compatible arm rest that supports the patient's arm on the magnet patient table when starting intravenous lines. The board is removed after the IV is inserted. This product has been tested and verified for compatibility with the following Siemens' products: MAGNETOM Tru, Esprée, Avanto and Symphony. Compatibility with other products cannot be assured and may void service contracts and/or system warranties.
MR_PM MR Project Management	A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemens equipment. The assigned PM will work with the customer's facilities management, architect or building contractor to assist you in ensuring that your site is ready for installation. Your PM will provide initial and final drawings and will coordinate the scheduling of the equipment, installation, and rigging, as well as the initiation of on-site clinical education.
MR_INITIAL_32 Initial onsite training 32 hrs	Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
MR_FOLLOWUP_24 Follow-up training 24 hrs	Up to (24) hours of follow-up on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
MR_SYNGO_BCLS Basic syngo MR Class	Option for (1) imaging professional to attend Siemens class at Siemens Training Center, this class is a requirement for (1) imaging professional to participate prior to on-site training. The objectives of this class are to introduce the user interface of the common syngo platform and instructions on building protocols, demonstration of software functions, and hands-on sessions. This class includes lunch, economy airfare, and lodging for (1) imaging professional. All arrangements must be arranged through Siemens designated travel agency. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
MR_ADD_32 Additional onsite training 32 hours	Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

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Part No. / Product	Description
MR_PR_NGB_WKFL_ES Workflow Pkg FMV (\$130K) Espre	As part of the FY09 Novation Group Buy, Siemens is including the MRI Workflow package for no additional charge.
MR_TRADE_IN_ALL_OW MR Trade-in- Allowance Philips Intera as per project 11394-02 \$100,000	Trade-in value is valid for forty-five (45) days from the date of the quotation. After that time it must be revalued. The trade-in equipment shall be free and clear of all liens, encumbrances, security interests, assessments, rights of restraint and any other third party claims. Purchaser shall provide Siemens or its designated dealer or agent with access to the trade-in equipment by the agreed upon de-installation date designated on the signed trade-in specification document or within 14 days of new equipment turnover, whichever occurs first. Title and risk of loss to the trade-in equipment shall pass to Siemens or its designee upon installation of the purchased equipment at the Purchaser's facility. In the event that access to the trade-in equipment is denied past the agreed upon de-installation date, then the Purchaser shall pay to Siemens the amount of ten (10) percent of the total trade in value including Elevate discount (no less than \$1000) for each month, or part thereof, that access is denied. In addition, in the event that the trade-in equipment does not meet manufacturer's operating specifications or is not otherwise in the condition as stated in the trade-in specification sheet at the time of trade-in, or in the event that any trade-in items are not returned or otherwise made available to Siemens or its designee, then Purchaser shall be invoiced and shall pay for any missing or damaged items/equipment, or the trade-in value set forth in this Quotation shall be adjusted in Siemens' sole discretion.
CHILINST_AVT Chiller Start-up and Warranty for TIM	Start up and initial set up service performed by the chiller manufacturer or designated service representative. This service does not include the piping and other prerequisite siting, of the waterchiller, which are the responsibility of the customer. 12 months warranty and performed by the chiller manufacturer.
INV474SI64F Invivo 1.5T lower extremity coil	1.5T circularly polarized lower extremity coil. Circularly polarized birdcage design maximizes image quality for superior spatial and contrast resolution images of the foot, ankle and knee. This product has been tested and verified for compatibility with the following Siemens' products (minimum software version): MAGNETOM Avanto (N4VB11A), Espre (N4VB12A) and Symphony & Tim System (N4VB12T). Compatibility with other products cannot be assured and may void service contracts and/or system warranties. Quality assurance measurement is performed by the customer according to the instructions provided with the coil. In case of problems with these coils, the customer shall contact the coil manufacturer directly; Siemens Service has to make sure that the problem is not caused by the MR system. Siemens does not stock any spare parts.
INV800266 7-channel Breast Coil #AV-ES INVIVO	Avant and Espre Systems Biopsy Breast Array coil to take advantage of 6 channel system capabilities including parallel imaging applications. Copen apertures provide for both lateral and medial access for MR breast Interventional procedures. Fully integrated biopsy and immobilization kit, Head Rest and pad, patient comfort pad, pharlock, sample Interventional Instrument kit and Operator's Manual are included. Purchase includes 1 day of coil and biopsy applications will be provided by Invivo applications. 1-year warranty is included with purchase. Service and applications will be provided by Invivo and they can be contacted at (800) 331-3220. This product has been tested and verified for compatibility with the following Siemens' products: Avant and Espre 1.5T MR. Compatibility with other products cannot be assured and may void service contracts and/or system warranties.
MROIPMAP Stereo system with iPOD	Stereo system includes the following: - Single CD player with tuner and speakers

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Part No. / Product	Description
(Continued) MROIPMAP Stereo system with iPOD	<ul style="list-style-type: none">- iPOD Nano2- POD cradle- Line level attenuator- 25 ft. of RCA cable <p>System can be played stand-a-one or connected to an intercom system that accepts an RCA audio input.</p>
14413682 UPS Powerware PW9130G-3000T- XLEU (Optional)	Voltage range: 180 - 276 V Input frequency: 50 / 60 Hz Output voltage: 230 VAC Dimensions (H x W x D): UPS 346 x 214 x 412 mm (inc. UPS bracket set) Weight: approx. 36 kg
0885782B UPS Cable #Tim (Optional)	<ul style="list-style-type: none">Power cable to connect the 3 KVA Powerware 9125 small UPS system (pr. PWR9125H-3000) to the ACC cabinet of the MAGNETOM Avanto/ Express/ Tim Trio for back-up the host computer and Imager. <p>Configuration includes connection box.</p> <p>The standard cable length is 9 m.</p>

Divide II: Proposal Description:

1. Provide a complete detailed project description and include equipment bid quotes.

Patients First Health Care, LLC ("Patients First"), a multi-specialty physician practice, proposes to replace its existing magnetic resonance imaging ("MRI")¹ system, which is being used at almost double the minimum utilization rate. Patients First's existing MRI system cannot perform breast studies or lower extremity vascular studies, or accommodate large or claustrophobic patients. The existing MRI system cannot be upgraded any further, and needs to be replaced in order to provide MRI services to all patients in need. Patients First will remove this MRI system from service, and replace it with a Siemens 1.5 Tesla Magnetom Espree open bore system.

New Services

The Siemens 1.5T Magnetom Espree MRI system will be able to perform imaging studies that the current system cannot perform. Patients First will be able to provide breast imaging studies to high risk cancer patients, and patients with implant complications after reconstruction. Patients First will also be able to perform lower extremity vascular imaging studies. Patients who need these imaging services currently must travel to other facilities to receive them.

The Siemens system also has an "open" bore system that can accommodate large patients and claustrophobic patients. It is challenging, and in many cases impossible, for large or claustrophobic patients to be scanned on a traditional MRI system, such as the one at Patients First. In his letter of support for this project, Tim Long, MD explained the discomfort of the traditional MRI systems: "I have had several MRI's over my lifetime and have had to really talk myself through the sense of feeling exceptionally closed in in the current generation of machines that are available. I know my patients at times suffer even greater discomfort." In fact, some patients cannot be scanned on a traditional MRI system without sedation - if at all. Attached are three letters of support for this project from patients who cannot be scanned on the existing MRI equipment without sedation. In her letter of support, Alvera P. Hecger wrote that she was unable to complete MRI spinal studies at Patients First because she could not overcome the claustrophobic feeling.

Patients who cannot be scanned on Patients First's current MRI system, due to their size, weight, or claustrophobia, must drive 40 minutes to an hour to another facility. This travel requirement causes some patients to forgo the scans. See attached letter of support from Pat Strubberg, who has not received an MRI of her back, recommended by her physician more than a year ago, because she is claustrophobic and did not want to make the trip to St. Louis. In his letter of support, Keith Ratchiff, MD wrote that this travel poses a particular hardship on elderly patients. Patients First seeks to replace its MRI with an open-bore MRI, in order to provide its patients with the care they need, on-site.

¹ Magnetic resonance imaging is used in radiology to visualize the body's internal structure and function, in order to identify pathological tissue.

The Siemens 1.5T Magnetom Espree's large open bore (70 cm in diameter) will allow Patients First to scan these larger and claustrophobic patients. The bore is also shorter (125 cm), so patients can typically be scanned head-out or feet-first, rather than entirely within the bore. When a patient's head is positioned inside the open bore, there is approximately 30 cm of space between the patient's face and the top of the bore. This is about twice the vertical space provided in traditional MRI systems. Patients feel more comfortable and relaxed in the spacious open bore, and do not require sedation to be scanned. The open bore also minimizes anxiety-produced patient movements, which can interfere with imaging accuracy. In addition, the Siemens system table can accommodate much heavier patients (up to 550 pounds), so that obese patients may access the same level of care.

Imaging Capabilities

The Siemens system uses a 1.5 Tesla high-field magnet to produce sharper and clearer diagnostic images. This MRI system also uses a greater number of channels (16 channels, versus only 6 channels on Patients First's current MRI system) of data, which also produces higher quality images. The expanded field of view of up to 205 cm enables imaging of the whole disease. The Siemens Total Imaging Matrix, or "Tim" technology, brings increased flexibility, accuracy, and speed to the imaging process. In her letter of support, Jessica Panhorst, Radiation Therapist at Patients First, wrote that the new MRI system's superior imaging capabilities will "enhance the treatment planning involved in 3D Conformal Radiation Therapy and Intensity Modulated Radiation Therapy." This advanced imaging capability will increase the accuracy of treatment planning and improve the quality of patient care.

Efficiency

The new Siemens MRI system is more efficient and saves costs. Its compact design leaves a smaller footprint. The system's low power requirements and energy demands reduce energy costs. In addition, workflow is improved on this system, with quicker patient set-up, reduced scan times, and automatic data processing.

2. Provide a legible city or county map showing the exact location of the project.

See attached map.

3. Define the community to be served.

The community to be served is the community of cancer patients in Franklin, Warren, and Gasconade counties.

4. Provide 2015 Population Projections for the proposed geographic service area.

Franklin County	106,652
Warren County	36,410

Gasconade County 15,743

Total: 158,535

The foregoing population projections were provided by the Missouri Bureau of Health Informatics.

5. Provide other statistics to document the size and validity of any user-defined geographic service area.

Patients First's service area comprises Franklin, Warren, and Gasconade counties. Since July 2007, Patients First has served 81,566 patients in this service area.

6. Identify specific community problems or unmet needs the proposal would address.

Patients needing breast or lower extremity vascular imaging must currently travel outside of Patients First's service area to obtain these services. The acquisition of this new MRI will meet the needs of those patients locally.

The Siemens Espree's open bore will also accommodate larger patients and claustrophobic patients. Some of these patients must be sedated in order to be scanned on Patients First's existing equipment. Others must travel 40 minutes to an hour to another facility to be scanned--and some patients decide to forego treatment when faced with this inconvenience. One Patients First physician alone, Keith Ratchiff, MD, said in his letter of support that he encounters one or two patients each month that cannot be scanned on Patients First's existing equipment.

Patients First has 66 specialists who offer advanced, specialized care to patients. When scans are performed on equipment at other facilities, they are not available on the Patients First network for immediate review by these specialists. The patient's treating physician at Patients First must rely on an interpretation by another physician, who is not familiar with the patient and is perhaps not a specialist. When MRI scans are performed at a different site, and the Patients First specialist must rely on another physician's off-site interpretation, the treatment process is delayed, threatening the quality of care.

Finally, the Siemens Espree's improved workflow will help Patients First provide MRI scans to its patients more efficiently. Even though Patients First operates its existing MRI system from 7 a.m. to 9 p.m. on weekdays, patients sometimes must wait to be scanned. Each week, Patients First sends patients to other facilities because they cannot wait for a scan at Patients First. In his letter of support, Benjamin W. Verdine, M.D. aptly summarizes the significance of this problem: "...our current volume of patients has led to long wait times at all MRI scanners available in the community, and timely diagnosis of many common problems is difficult." The Siemens system's improved workflow will help Patients First eliminate this problem.

7. Provide historical utilization for each of the past three years and utilization

projections through the first three years of operation of the new equipment.

Historical Utilization (# of scans)

2007	2008	2009*
3363	3362	3790

* 2009 utilization was projected based on actual utilization available through September 30, 2009.

Projected Utilization (# of scans)

2010	2011	2012
4046	4134	4145

8. Provide the methods and assumptions used to project utilization.

The increase in utilization contemplates patient volume attributable to the estimated amount of patients that have sought treatment at Patients First but could not be treated due to their large size or sense of claustrophobia. The increase in utilization also contemplates patients who sought treatment at Patients First but were not scanned, due to their inability to wait for Patients First's soonest available appointment.

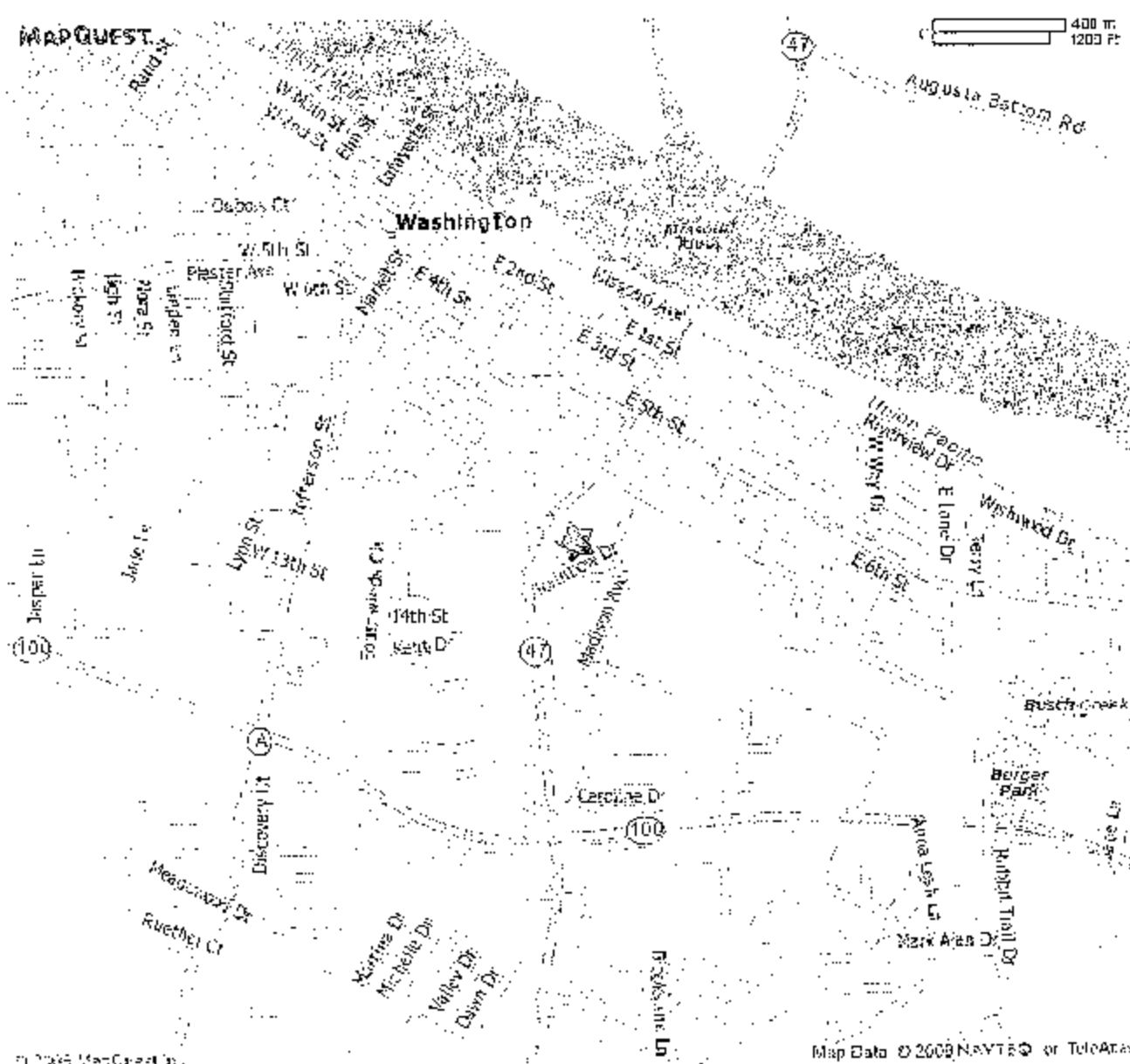
9. Document that consumer needs and preferences have been included in planning this project and describe how consumers had an opportunity to provide input.

The decision to purchase this equipment, which is more spacious and accommodates larger patients, was influenced by patients' negative feedback about the size of the opening of the existing equipment.

In addition, a notice about this proposed project was published in the Washington Missourian on October 7, 2009. A copy of the Affidavit of Publication is attached.

10. Provide copies of any petitions, letters of support or opposition received.

Letters of support are attached.



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 Directions and maps are informational only. We make no warranties on the accuracy of their content, road conditions or route usability or expediency. You assume all risk of use. MapQuest and its suppliers shall not be liable to you for any loss or delay resulting from your use of MapQuest. Your use of MapQuest means you agree to our Terms of Use.

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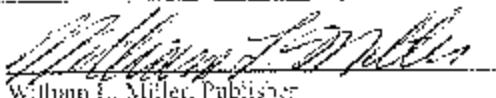
AFFIDAVIT OF PUBLICATION

Date: 10/07/09

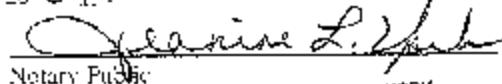
STATE OF MISSOURI : ss.
COUNTY OF Franklin

I, William L. Miller, being duly sworn according to law, state that I am the Publisher/Editor of The Washington Missourian, a weekly/daily newspaper of general circulation in the County of Franklin, State of Missouri, where located; which newspaper has been admitted to the Post Office as periodical class matter in the City of Washington, Missouri, the city of publication; which newspaper has been published regularly and consecutively for a period of three years and has a list of bona fide subscribers voluntarily engaged as such who have paid or agreed to pay a stated price for a subscription for a definite period of time, and that such newspaper has complied with the provisions of Section 293.050, Revised Statutes of Missouri 2000, and Section 59.310, Revised Statutes of Missouri 2000. The affixed notice appeared in said newspaper in the following consecutive issues.

- 1st Insertion Vol. 118 No. 58, 7 day of Oct 2009
 2nd Insertion: Vol. No. , day of 20
 3rd Insertion: Vol. No. , day of 20
 4th Insertion: Vol. No. , day of 20


William L. Miller
William L. Miller, Publisher

Subscribed and sworn to before me on this 7th day of
October 20 09.


Jeanine L. York

Notary Public



JEANINE L. YORK
My Commission ExPIred
September 10, 2012
Franklin County
Commission # 40654766

**UROLOGY**

Scott M. Apte, M.D.

FAMILY PRACTICEMatthew J. Tiersen, M.D.
Peter J. Lanzle, M.D.**ORTHOPEDIC SURGERY**Thomas D. Mattocks, M.D.
David E. Chalk, M.D.
Dean A. Lusardi, M.D.
James R. Boland, M.D.
Elizabeth P. Hamner, M.D.**PEDIATRICS**

Elizabeth P. Hamner, M.D.

OBSTETRICS/GYNECOLOGYChristiane K. Korte, V.D.
Dawn M. McDaniel, M.D.
Erika R. O'Donnell, V.D.**GASTROENTEROLOGY**

Barbara Dixon-Snell, M.D., Ph.D.

GASTROENTEROLOGYLeslie E. Tucker, M.D., F.A.C.G., F.A.C.P.
Carl F. Blaz, Jr., M.D.
Chien-Huan Chen, M.D., Ph.D.**CARDIOLOGY**Otilio Banerjee, M.D., F.A.C.C.
John M. Mitchell, M.D.**FAMILY PRACTICE**Kelly J. Bain, M.D.
Karin D. Collier, M.D.
Thomas E. Davis, M.D., F.A.A.F.P.
David P. Goss, M.D.
Craig S. Holzen, M.D., F.A.A.F.P.
Timothy P. Long, M.D.
Keith M. Raiche, M.D., F.A.A.F.P.**GENERAL SURGERY**James D. Cassat, M.D., F.A.C.S.
Jeremy D. Johnson, M.D., F.A.C.S.**INTERNAL MEDICINE**Bryce A. Ayers, M.D.
Kathy DuMontier, M.D.
Robert W. Husted, M.D.
Michael E. Ratliff, M.D., F.A.C.P.
Kenneth B. Smith, M.D., F.A.C.P.
Sharkia A. Thangwallah, M.D.**FAMILY PRACTICE**Melissa D. Johnson, D.O.
Mark O. Rickmeyer, D.O.
Craig I. Schmidt, M.D.**NEUROLOGY/SLEEP DISORDERS**

Jamie T. Haas, M.D.

October 12, 2009

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Mr. Piper,

I am a family physician who practices in Washington, Marthasville as well as Warrenton Missouri. I am writing in support of the MRI request by Patients First Healthcare. I believe that there is a clear need for the availability of this new MR device in the Washington area so that we are able to provide services to our patients that are not available without an additional 45 minutes to 1 hour drive. This new device will allow patients to have access for new MRI imaging of the breast, lower extremity vascular imaging that will provide sharper and clearer diagnostic images.

Additionally I have had many patients who because of their size, weight or sense of claustrophobia have had to drive to St. Charles or St. Louis to have access to a larger bore MRI machine. I have had several MRI's over my lifetime and have had to really talk myself through the sense of feeling exceptionally closed in in the current generation of machines that are available. I know my patients at times suffer even greater discomfort.

I hope that you will favorably consider their request for a Certificate of need for a new and improved MRI machine to provide easier access, better and more accurate imaging and a broader range of studies for our patients.

Sincerely,

Tim Long, M.D.

:cs

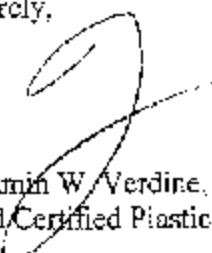
October 19, 2009

Mr. Tom Piper
Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Mr. Piper,

I am writing in support of a MRI scanner for Patients First Health Care, LLC. I am a plastic, reconstructive, and hand surgeon, and see the need in the community for such a device as is being considered. Currently, I have patients who require breast MRI, either for high risk cancer or implant complications after reconstruction. Currently, these patients are required to drive almost an hour to receive such a test, as there is no capability locally. Many times, these patients are already under duress because of a newly diagnosed problem, which is only exacerbated by the fact that they have to travel a distance. Also, our current volume of patients has led to long wait times at all MRI scanners available in the community, and timely diagnosis of many common problems is difficult. In summary, I believe there are huge benefits to patients in our community by the addition of such a device.

Sincerely,



Benjamin W. Verdine, MD
Board Certified Plastic, Reconstructive, and Hand Surgeon

October 13, 2008

Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Sir or Madam:

I am writing to you in support of the Patients First Health Care's application for a replacement MRI machine for the Washington, Missouri Diagnostic Center.

The proposed replacement MRI machine contains a shorter bore with larger opening, which will be more comfortable for larger or claustrophobic patients. My physician wanted me to have an MRI of my back done over a year ago but I have been putting it off. I am extremely claustrophobic and not a petite woman so this new MRI machine may help convince me to do the test without forcing me to go to St Louis for an open MRI.

With an upgraded MRI machine, the technologists will be able to perform additional studies that will produce higher quality images. I feel that my physician needs the most technologically advanced equipment so I can be accurately diagnosed. This will allow him to develop a treatment program that is unique to me and will set me on the road to optimum results without wasting money on treatments that may not be the best course for my particular problem.

I urge you to support this application from Patients First Health Care for a replacement MRI machine in Washington, Missouri.

Sincerely,

Pat Strubberg
Pat Strubberg

Jessica Panhorst
111 Melrose Street
New Haven, MO 63068
October 12th, 2009

Tom Piper
Director of Certificate of Need Program
Missouri Department of Health
205 Jefferson Street
Jefferson City, MO 65102

Dear Mr. Piper,

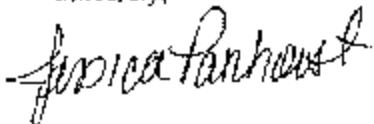
As a member of the community and an employee of Patients First Health Care, I am writing you this letter in support of Patients First Health Care's proposed MRI replacement. In order to take exceptional care of our community, we must keep up with the newest technologies that are developing.

A new MRI unit would benefit the community by producing higher quality images that are necessary for quality care, and provide a larger opening that is more comfortable for our patients. It also will perform new imaging studies that Patients First Health Care is unable to do with the current MRI unit. The new MRI unit will allow the community to receive quality care close to home without traveling approximately 50 miles or more to other facilities in the St. Louis area.

Patients First Health Care will be opening a Cancer Center to serve our community. The use of a new MRI unit in adjunct with CT imaging will specifically enhance the treatment planning involved in 3D Conformal Radiation Therapy and Intensity Modulated Radiation Therapy (IMRT). A new MRI unit would especially aid in imaging cancers of the breast, head and neck, brain, pelvis, and prostate. Thus, allowing Patients First Health Care to provide the best Cancer care possible for the community.

In conclusion, a new MRI unit would increase the overall quality of care to what is most important to us- the People of our community.

Sincerely,



Jessica Panhorst
Radiation Therapist

October 8, 2009

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

RE: Patients First Health Care LLC
Replacement of MRI Machine

Dear Mr. Piper:

I am writing to you today in support of the Patients First Health Care's application for a replacement MRI machine for the Washington, Missouri Diagnostic Center, both as an employee of Patients First and as a patient.

As a patient with chronic back issues, I have had the occasion to use the services of the current MRI machine at Patients First in Washington. I tolerated the first series of spinal studies, but the opening was long and narrow and uncomfortable for me. I was unable to complete a second series of spinal studies in early 2009 because I could not overcome the claustrophobic feeling I experienced. My option was to drive to St. Louis where I completed a full spinal study in an open-sided MRI at St. Luke's Hospital. The idea of being able to possibly complete my next MRI back at Patients First in Washington is encouraging for me.

As Director of Marketing for Patients First I find that patients will share their experiences with me, whether good or bad. Patients are so pleased, and sometimes relieved, to be able to complete their diagnostic studies close to home and within the same building where their doctor is located. They comment on the convenience of our facility and the testing capabilities we offer. They also share their feelings with me when they are unhappy with their experience. Many times I've heard that a patient will never complete another MRI in our building. Sometimes it's based on claustrophobic issues or the fact that they are a larger person and they feel squeezed in...sometimes it's both.

I urge you to support this application from Patients First Health Care and to allow the organization to offer improved health services to the communities we serve.

Sincerely,



Alvera P. Heeger
310 Garrick Place
Union, MO 63084

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Mr. Piper:

Please accept this letter of support for the CON application concerning an advanced MRI requested by Patients First Health Care in Washington Missouri. I have practiced in this area for over 20 years, and a very frequent concern that our patients have is the distance they need to travel for more advanced diagnostic procedures. This provides a particular hardship for our elderly patients. The requested equipment will allow for a larger diameter opening that will make the study easier on claustrophobic patients, and provide a local resource for our patients who suffer from obesity. Currently the closest diagnostic MRI they can handle our largest patients is in Fenton Missouri, which is at least 40 minutes from this location.

Please be prompt in addressing this current need for our patients. There is no rational reason why our patients should need to travel such a distance to receive care that can be provided in this community. Such travel is inconvenient, expensive in terms of personal time in travel, and potentially dangerous given the travel on our interstate highways.

Thank you for spending your valuable time reviewing these issues. After careful consideration, I am sure that you will see the very real need that exists for our patients. Personally I have one or two patients every month that cannot be served by the resources available in our community, and it is a disservice to them to let this situation continue. I look forward to your affirmative response, and if any further information is needed please feel free to contact me at my home address.

Respectfully,

Keith Ratcliff MD, FAAPP
President Elect
Missouri Academy of Family Physicians

Home Address:
864 Kleekamp Lane
Washington, Mo. 63090
(636) 239-0216

October 16, 2009

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

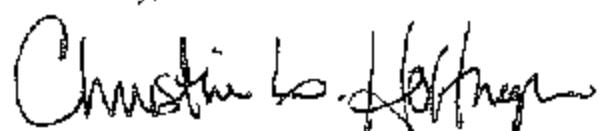
Dr Mr. Piper:

I am writing to you in support of Patients First Health Care's application for a replacement MRI machine.

With this replacement I will be able to have my MRI's done at Patients First Health Care without being medicated. Not only will I benefit from this, but others patients as well.

I feel Patients First Health Care needs a new MRI machine and hope you support this application.

Sincerely,

A handwritten signature in black ink, appearing to read "Christine L. Hoffner".

October 16, 2009

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

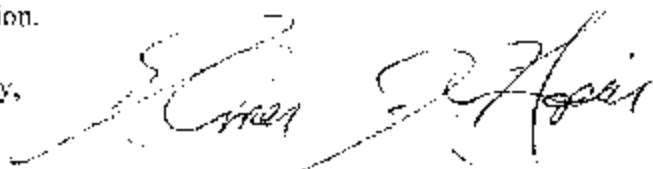
Dr Mr. Piper:

I am writing to you in support of Patients First Health Care's application for a replacement MRI machine.

With this replacement I will be able to have my MRI's done at Patients First Health Care without being medicated. Not only will I benefit from this, but others patients as well.

I feel Patients First Health Care needs a new MRI machine and hope you support this application.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric J. Hais".

October 16, 2009

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

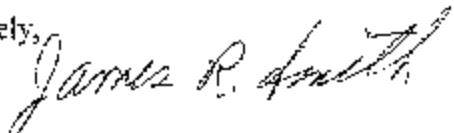
Dr Mr. Piper:

I am writing to you in support of Patients First Health Care's application for a replacement MRI machine.

With this replacement I will be able to have my MRI's done at Patients First Health Care without being medicated. Not only will I benefit from this, but others patients as well.

I feel Patients First Health Care needs a new MRI machine and hope you support this application.

Sincerely,

A handwritten signature in black ink, appearing to read "James R. Smith".

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Mr. Piper,

I am writing you today to urge approval of the application from Patients First Health Care Washington, Missouri Diagnostic Center.

I am employed by Patients First Health Care as the Imaging Supervisor and lead MRI technologist.

Our current system can not be upgraded any further. It is necessary to replace this scanner in order to be able to offer our patients and community the most up to date health care possible. The patients who come to Patients First have the expectation to receive health care service equal to or better than what they can find in the St. Louis area. They do not want to drive an hour on the freeway and then have to navigate thru a huge medical center.

The proposed MRI scanner is an innovative design which allows the ability to have the benefit of an "Open MRI" (70cm bore) feel while also giving the image quality of a 1.5T high field magnet. This design allows an increase in the vertical space inside the bore and often is able to accommodate patients who could not fit into a conventional open MRI.

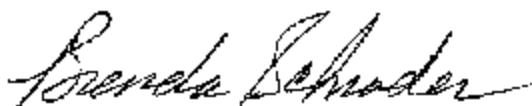
In addition the new system will allow us to offer state of the art breast imaging, and angiography of the lower extremities. Software included with the system will allow us to do whole body diffusion imaging for our radiation oncology center.

Other benefits include: Limiting claustrophobic rejections, sedate fewer patients, capture sharper images due to less anxiety related movements.

The improvements and options on this new system far out weigh the current system we now operate. I can not emphasize enough the need the community has for these new services.

Your approval of our request will allow Patients First Health Care to provide the best service to our patients and community.

Sincerely,



Brenda Schrader BSRT (R)(CT)(MR)
Imaging Supervisor
Patients First Health Care



PEDIATRICS
Elizabeth P. Hamster, MD, FAAP
Marissa C. Stock, MD, FAAP
GASTROENTEROLOGY
Leslie E. Tucker, MD, FACC, FACP
Carl E. Barr, Jr., MD
Barbara Dixon-Scoll, MD, PhD
GYNECOLOGY
Christiane N. Kerba, MD
UROLOGY
Suzil M. Apis, MD

GENERAL SURGERY
James D. Cassat, MD, FACS
James D. Jansen, MD, FACS
NEUROLOGY/SLEEP
DISORDERS
James T. Haas, MD
CARDIOLOGY
Michael A. Beardslee, MD, FACC
ENT
John M. Almquist, MD
Brian A. Seck, MD

ORTHOPEDIC SURGERY
Thomas D. Matthews, MD
David R. Chalk, MD
Christian D. Linz, DO
Dean A. Lucardi, MD
James K. Rubenach, MD
URGENT CARE
Thomas M. Favell, MD
Ann Elizabeth Muhart, MD
Cina M. McHart, MD
Nestor Shust, MD
INTERNAL MEDICINE
PEDIATRICS
Gretchen E. Kleesmit, MD
DERMATOLOGY
Isaac L. Reinoerg, MD
OTOLARYNGOLOGY
Tanya McCormick, ARNP
ENT/OTOLARYNGOLOGY
James McIlwaine, MD

FAMILY MEDICINE
Kelly J. Barn, MD
Sarah Baumstark, MD
Kim D. Collier, MD
Thomas E. Davis, MD, FAAFP
James R. Crimes, MD
David P. Goss, MD
Craig S. Holzen, MD, FAAPP
Trevor P. King, MD
Peter I. Lumble, MD
Timothy P. Long, MD
Keith M. Radcliffe, MD, FAAPP
Mark D. Remmeyer, DO
Craig I. Schmidt, MD
Charles H. Simcox, MD, FAAPP
Matthew L. Tierenbrunn, MD
James D. Turner, MD, FAAPP
Krisin Weidie, MD
ENT/OTOLARYNGOLOGY
James McIlwaine, MD

INTERNAL MEDICINE
Bryce A. Ayers, MD
Daniel J. Bauer, MD
Kenneth R. Brightfield, MD
Gary J. Montier, MD
Felipe J. Hjelteik, MD
Robert W. Halsted, MD
Musse Modad, MD
Kylie F. Osment, MD
Michael E. Reu, MD, FACP
Jose R. Remo, Jr., MD
J. Dennis Saffa, MD
Sarah L. Seck, MD
Kenneth R. Smith, MD, FACP
Shackat A. Thunewall, MD
M. Jay Walden, MD
Noel F. Wieserich, MD
PLASTIC/RECONSTRUCTIVE SURGERY
Benjamin W. Verdine, MD

October 12, 2009

Mr. Tom Piper
Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Mr. Piper:

I am writing you in support of the Patients First Healthcare application for replacement MRI machine for the Washington, Missouri, Diagnostic Center. The proposed MRI machine contains a shorter bore, with a larger opening, which will be more comfortable for larger or claustrophobic patients. With an upgraded MRI machine, the technologist will be able to perform additional studies, and produce higher quality images. The patients will benefit by being able to complete their MRI studies in Washington, without having to travel to another site, the closest of which is quite a distance away.

As a physician specializing in Family Medicine, I order numerous MRI studies for my patients. A replacement MRI machine will offer expanded studies in breast imaging, and angiography of the lower extremities, which will be of benefit to my patients. Currently, these individuals are more likely than not already infirmed, and must travel into the St. Louis area to obtain these studies. Your approval of the Patients First application will allow Patients First to provide the best technology to the residents of Franklin County. I urge you to support this application.

Please don't hesitate to contact me, if you have any further questions.

Sincerely yours,

Thomas E. Davis, M.D.

Cc: Joe Gubbels

59



901 Patients First Drive
Washington, Missouri 63090
(636) 390-9555
Fax: (636) 390-0114

October 22, 2009

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Mr. Piper:

I am writing today to support the Patients First application for a replacement MRI machine.

As a physician specializing in gynecology, I order numerous MRI studies for my patients. The replacement MRI machine will offer expanded studies in breast and pelvic imaging, which will be of benefit to my patients. Also, being able to complete MRI studies in the Washington location is more convenient for patients that aren't interested in or able to travel to another site.

Your approval of the Patients First application will allow Patients First to provide the best technology to our patients. I urge you to support this application.

Sincerely,


Christiane Korba, M.D.

Ckk/trv

Audiology	Family Medicine	Internal Medicine	Pain Management	Radiology
Cardiology	Gastroenterology	Neurology/S esp	Pediatrics	Urgent Care
Dermatology	General Surgery	Obstetrics	Plastic/Reconstructive	Urology
ENT/Otolaryngology	Gynecology	Orthopedics	Surgery	

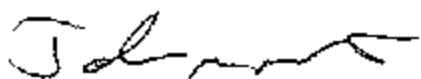
Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

I am emailing to show my support for the application of a replacement MRI machine at Patients First Health Care.

As one of four Patients First Health Care Cardiologists, I order several MRI's each week. The new MRI machine will offer expanded studies in angiography of the lower extremities and will be a great benefit to my patients.

By receiving your approval, Patients First Health Care will be able to provide patients with the most advanced technology available.

Sincerely,



John M. Mohart, MD, FACC

October 13, 2009

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dr Mr. Piper:

I am writing to you in support of Patients First Health Care's application for a replacement MRI machine.

With this replacement I will be able to have my MRI's done at Patients First, instead of having to travel a farther distance to have one done. Not only will I benefit from this, but many other patients as well.

I greatly urge you to support this application for Patients First Health Care.

Sincerely,
Barry J Conway



PATIENTS FIRST®

HEALTH CARE LLC

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Gastroenterology

General Surgery
Gynecology
Internal Medicine
Neurology/Sleep Disorders
Orthopedics
Pain Management

Pediatrics
Plastic/
Reconstructive Surgery
Radiology
Urgent Care
Urology

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

I am writing today to support the Patients First application for a replacement MRI machine.

As a nurse practitioner specializing in family practice, I order numerous MRI studies for my patients. The replacement MRI machine will offer expanded studies in breast imaging and angiography of lower extremities, which will be of benefit to my patients. Also, being able to complete MRI studies in the Washington location is more convenient for patients that aren't interested in traveling to another site.

Your approval of the Patients First application will allow Patients First to provide the best technology to our patients. I urge you to support this application.

Sincerely,

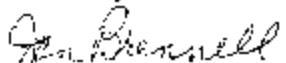
Dana Helebusch RN BSN MA CDE FNP

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

I am writing to you in support of the Patients First Health Care's application for a replacement MRI machine for the Washington, Missouri Diagnostic Center. The convenience of obtaining MRI studies in Washington versus traveling to another site is very important to me. With this upgrade MRI machine, the technologists will be able to perform additional studies that will produce higher quality images instead of traveling to another site for additional studies. Convenience and excellence is an important issue.

I urge you to support this application from Patient's First Health Care for a replacement MRI machine in Washington, Missouri.

Sincerely,



Jan Brennell
New Haven, Missouri

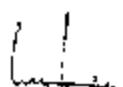
Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

I am writing today to support the Patients First application for a replacement MRI machine.

As a physician specializing in Family Medicine, I order numerous MRI studies for my patients. The replacement MRI machine will offer expanded studies in breast imaging and angiography of lower extremities, which will be of benefit to my patients. A problem I run into frequently is also the large or claustrophobic patient – this new MRI with a bigger opening will be of great benefit to them. Also, being able to complete MRI studies in the Washington location is more convenient for patients that aren't interested in traveling to another site.

Your approval of the Patients First application will allow Patients First to provide the best technology to our patients. I urge you to support this application.

Sincerely,



Carl N. Peters, M.D.



AUDIOLOGY	GASTROENTEROLOGY	ORTHOPEDIC SURGERY
CARDIOLOGY	CENTRAL SURGERY	PEDIATRICS
DERMATOLOGY	GYNECOLOGY	PLASTIC/RECONSTRUCTIVE SURGERY
ENT/Otolaryngology	INTERNAL MEDICINE	URGENT CARE
FAMILY MEDICINE	NEUROLOGY/SLEEP DISORDERS	UROLOGY

October 13, 2009

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Mr. Piper:

We are writing to you in support of the Patients First Health Care's application for a replacement MRI machine for the Washington, Missouri Diagnostic Center.

The proposed replacement MRI machine contains a shorter bore with larger opening, which will be more comfortable for larger or claustrophobic patients. Patients will benefit by being able to complete their MRI studies in Washington without traveling to another site or needing to be pre-medicated which requires special transportation arrangements.

In addition, an upgraded MRI machine will allow the technologists to perform additional studies that will produce higher quality images.

I urge you to support this application from Patients First Health Care for a replacement MRI machine in Washington, Missouri.

Sincerely,

Thomas D. Matthews, M.D.

David E. Chalk, M.D.

James R. Rotramel, M.D.

Christian D. Linz, D.O.

ORTHOPEDIC DIVISION

Thomas D. Matthews, M.D. • David E. Chalk, M.D. • Dean A. Lusardi, M.D. • James R. Rotramel, M.D. • Christian D. Linz, D.O.

901 PATIENTS FIRST DRIVE • WASHINGTON, MISSOURI 63090 • (636) 239-9011 • FAX: (636) 239-0433
WWW.PATIENTSFIRSTHC.COM



PATIENTS FIRST[®]

HEALTH CARE LLC

PEDIATRIC

Elizabeth P. Hammer, MD, FAAP
 Marissa C. Stork, MD, FAAP
GASTROENTEROLOGY
 Leslie L. Ucker, MD, FACC, FACP
 Carl F. Blatt, Jr., MD
 Barbara Dixon Scott, MD, PhD
GYNCOLOGY
 Christopher K. Korke, MD
UROLOGY
 Scott M. Acte, MD

GENERAL SURGERY

James D. Cawell, MD, FACS
 James D. Jensen, MD, FACS
ENTROLOGY/SLIPP
 DISORDERS
 Jamie T. Haas, MD
CARDIOLOGY
 Michael A. Beardslee, MD, FACC
 FAFC
 John M. Mohart, MD
 Brian A. Seck, MD

ORTHOPEDIC SURGERY

Thomas D. Mathews, MD
 David E. Clark, MD
 Christian D. Linz, DO
 Dean A. Luisardi, MD
 James K. Robinsel, MD
URGENT CARE
 Thomas M. Farrell, MD
 Ann Elizabeth Mohart, MD
 Gina M. Mohart, MD
 Nestor Shish, MD
INTERNAL MEDICINE
 PEDIATRICS
 Fletcher E. Kluesner, MD
DERMATOLOGY
 Jason L. Reinberg, MD
AUDIOLOGY
 Tanya McCormack, AuD
ENTERTOLARYNGOLOGY
 James McElwaine, MD

FAMILY MEDICINE

Kathy J. Barr, MD
 Laurel Baumslars, MD
 Kirk E. Brockman, MD
 Kim J. Collier, MD
 Thomas E. Davis, MD, FAAPP
 James R. Gaines, MD
 David P. Goss, MD
 Craig S. Holzem, MD, FAAPP
 Trevor P. King, MD
 Peter J. Lambla, MD
 Timothy H. Long, MD
 Keith M. Radclif, MD, FAAPP
 Mark D. Ritzmeyer, DO
 Craig J. Schenck, MD
 Charles E. Simcox, MD, FAAPP
 Patrick R. Smith, MD
 Matthew J. Tiefenbunn, MD
 James D. Turner, MD, FAAPP
 Kristin Weidle, MD

INTERNAL MEDICINE

Bryce A. Ayers, MD
 Daniel J. Bauer, MD
 Kenneth R. Brightfield, MD
 Gary DeWittier, MD
 Felipe J. Eljalek, MD
 Robert W. Halsted, MD
 Alan Mandel, MD
 Kyle F. Ostrom, MD
 Michael F. Rea, MD, FACP
 Jose R. Romeo, Jr., MD
 J. Dunn's Salls, MD
 Gerald J. Seck, MD
 Kenneth B. Smith, MD, FACP
 Shaukat A. Usanwala, MD
 M. Joy Wader, MD
 Neil J. Weyerich, MD
PLASTIC/RECONSTRUCTIVE SURGERY
 Benjamin W. Verdine, MD

**Mr. Tom Piper, Director
 Certificate of Need Program
 205 Jefferson
 Jefferson City, MO 65102**

I am writing today to support the Patients First application for a replacement MRI machine.

As a family practice physician I order numerous MRI studies for my patients. The replacement MRI machine will offer expanded studies in breast imaging and angiography of lower extremities, which will be of benefit to my patients. The convenience of the location will also be an added benefit for the patients.

Your approval of the Patients First application will allow Patients First to provide the best technology to our patients. I am asking you to support this application.

Sincerely,

Kirk E. Brockman, M.D.
 KEB/tb



PEDIATRICS

Elizabeth P. Hammer, MD, FAAP

Marissa C. Stock, MD, FAAP

GASTROENTEROLOGY

Leslie E. Tucker, MD, FACC, FACP

Carl L. Blatz, Jr., MD

Barbara Dixon-Scott, MD, PhD

GYNECOLOGY

Christiane K. Keisha, MD

UROLOGY

Suzanne M. Apler, MD

GENERAL SURGERY

James D. Caspar, MD, FACS

James D. Jansen, MD, FACS

NEUROLOGY/SLEEP

DISORDERS

Jamee L. Fleas, MD

CARDIOLOGY

Michael A. Beardlee, MD,

FACC

John M. Mohanty, MD

Brian A. Seck, MD

CRITICAL CARE SURGERY

Thomas D. Mathews, MD

David F. Chalk, MD

Christian D. Linc, DC

Dean A. Lusardi, MD

James R. Rotramel, MD

URGENT CARE

Thomas M. Farrell, MD

Ann Elizabeth Shabot, MD

Dina M. Moluri, MD

Nester Shest, MD

INTERNAL MEDICINE

PEDIATRICS

Gretchen L. Guesner, MD

DERMATOLOGY

Jason L. Remberg, MD

AUDIOLOGY

Troy McConnaughay, AuD

James McIlwaine, MD

FAMILY MEDICINE

Kelly J. Bain, MD

Laurel Baumstark, MD

Lark E. Brinkman, MD

Kim D. Colter, MD

Thomas E. Davis, MD, FAAPP

James R. Grimes, MD

David P. Guss, MD

Craig S. Holzner, MD, FAAPP

Trevor P. King, MD

Peter J. Lamble, MD

Timothy P. Long, MD

Keith M. Ratcliff, MD, FAAPP

Mark D. Rockney, DO

Craig I. Schmidt, MD

Charles H. Simcox, MD, FAAPP

Patrick R. Smith, MD

Matthew J. Tiefenbacher, MD

James D. Turner, MD, FAAPP

Kristen Weidle, MD

INTERNAL MEDICINE

Bryce A. Ayers, MD

Daniel J. Bauer, MD

Kenneth R. Bright, e.d., MD

Gary Dumontier, MD

Felipe J. Eljachik, MD

Robert W. Halsted, MD

Musa Modad, MD

Kyle F. Ostrom, MD

Michael E. Raai, MD, FACP

Jose R. Reino, Jr., MD

J. Dennis Salis, MD

Sarah J. Seack, MD

Kenneth R. Smith, MD, FACP

Shankar A. Tharawallia, MD

M. Jay Walden, MD

Noel F. Weyrich, MD

PLASTIC/RECONSTRUCTIVE SURGERY

Benjamin W. Vercino, MD

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

I am writing today to support the Patients First application for a replacement MRI machine.

As a family practice physician I order numerous MRI studies for my patients. The replacement MRI machine will offer expanded studies in breast imaging and angiography of lower extremities, which will be of benefit to my patients. The convenience of the location will also be an added benefit for the patients.

Your approval of the Patients First application will allow Patients First to provide the best technology to our patients. I am asking you to support this application.

Sincerely,

Patrick R. Smith, M.D.
PRS/tb

10-13-09

Mr. Tom Piper, Director
Certificate of Need program
205 Jefferson
Jefferson City, MO. 65102

Dear Mr. Piper:

I am writing to you in support of the Patients first HealthCare's application for a replacement MRI machine for the Washington, Missouri Diagnostic Center.

The Proposed replacement MRI machine contains a shorter bore with larger opening, which will be more comfortable for larger or claustrophobic patients. With an upgraded MRI machine, the technologists will be able to perform additional studies that will produce higher quality images. Patients will benefit by being able to complete their MRI studies in Washington without traveling to another site.

I urge you to support this application from Patients First HealthCare for a replacement MRI machine in Washington, Missouri.

Sincerely,
Lisa Gerleman

Lisa Gerleman

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

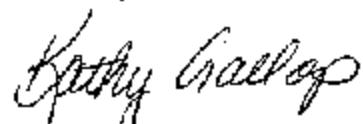
Dear Mr. Piper:

I am writing to you in support of the Patients First Health Care's application for a replacement MRI machine for the Washington, Missouri Diagnostic Center.

I am told that the replacement MRI machine that is being proposed contains a shorter bore with a larger opening, this would be more comfortable for larger or claustrophobic patients. With a new, upgraded MRI machine, the technologists would be able to perform additional studies that will produce higher quality images. Also, patients would benefit by being able to get their MRI studies in Washington and not have to travel out of town.

I urge you to support this application from Patients First Health Care for a replacement MRI machine in Washington, Missouri.

Sincerely,



Kathy Gallop

October 12, 2009

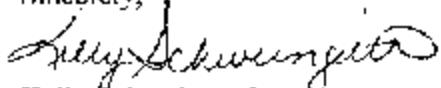
Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

Dear Mr. Piper,

I am writing to you in support of Patients First Health Care's application for replacement MRI machine for the Washington, Missouri Diagnostic Center. I have worked in the medical field for 30+ years and have seen the advancements in technology. To be able to provide higher quality images as well as breast imaging studies and to accommodate the claustrophobic and large patients would be a tremendous asset to our community. As our community grows it becomes essential that we strive to provide state of the art medical care to patients without the need for them to travel to another site.

I urge you to support this application from Patients First Health Care for a replacement MRI machine in Washington, Missouri.

Sincerely,



Kelly Schweissguth
PO Box 102, 15569 Duden Hills
Dutzow, MO 63342

Mr. Tom Piper, Director
Certificate of Need Program
205 Jefferson
Jefferson City, MO 65102

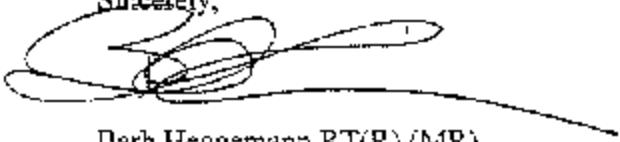
Dear, Mr. Piper:

I am writing you in support of the Patients First Health Care's application for a replacement MRI machine for the Washington, Missouri Diagnostic Center.

The proposed replacement MRI machine contains a shorter bore with a larger opening, which will be more comfortable for larger or claustrophobic patients. With an upgraded MRI machine, the technologists will be able to perform additional studies that will produce higher quality images. Patients will benefit by being able to complete their MRI studies in Washington without traveling to another site.

I urge you to support this application from Patients First Health Care for a replacement MRI machine in Washington, Missouri.

Sincerely,



Barb Heggemann RT(R) (MR)

Divide III: Community Need Criteria and Standards:

1. For new units address the need formula for the proposed geographic service area.

Unmet need = $(R \times P) - U$

P = 2015 population in geographic service area

U = Number of service units in the service area

R = Community need rate of one (1) unit per population for magnetic resonance imaging units: (1 per 100,000 = .00001)

P = 158,535

U = 4.25

R = .00001

$$(.00001 \times 158,535) - 4.25 = -2.66$$

However, because the reported inventory of 4.25 MRI units in the service area is inaccurate, the following revised inventory should be used:

County	Facility	# MRI Units
Franklin	St. John's Mercy Hospt.-Washington	2
Gasconade	Hermann Area Dist. Hospital	.25
Total		2.25

The above inventory of 2.25 MRI units does not include the MRI listed at HealthSouth Diagnostic Center in Franklin, which is no longer in service. This inventory also excludes Patients First's existing MRI unit, which will be removed from service and therefore should not be considered part of the inventory. Using this inventory, the analysis changes as follows:

$$(.00001 \times 158,535) - 2.25 = -.65$$

Patients First further asserts that this formula fails to capture the actual need for MRI services in the service area. First of all, Patients First is operating its existing MRI unit at almost double the minimum annual utilization rate—and is turning patients away. If there was truly a surplus of MRI units in the service area, this simply would not be possible. In addition, information provided by this Committee regarding utilization rates for the MRI units at St. John's Mercy Hospital-Washington indicates that those units are also operating in excess of the minimum utilization rate. See attached historical and projected utilization for St. John's. This chart shows historical utilization of over 3,000 for FY2006 for one MRI—and projected utilization of well over 4,000 for both MRIs combined. These projections indicate that St. John's is operating its MRI service at a greater utilization rate than the minimum—while Patients First is also operating its MRI service

at a greater utilization rate than the minimum. These statistics show how the formula's projection of a surplus of MRI units in the service area simply is not accurate.

Finally, because Patients First is replacing its existing MRI unit - which is already operating at a utilization rate that far exceeds the minimum rate—this project will have no impact on MRI services at other facilities. This project will simply allow Patients First to provide better MRI services to its existing patients, and provide MRI services to all patients who seek treatment at Patients First.

2. For new units, address the minimum annual utilization standard for the proposed geographic service area.

The minimum annual utilization standard for linear accelerator treatments is 2,000. As shown in Divider II, item 7, Patients First has consistently exceeded this standard.

3. For new units where specific need and utilization standards are not listed, provide the methodology for determining need.

Not applicable.

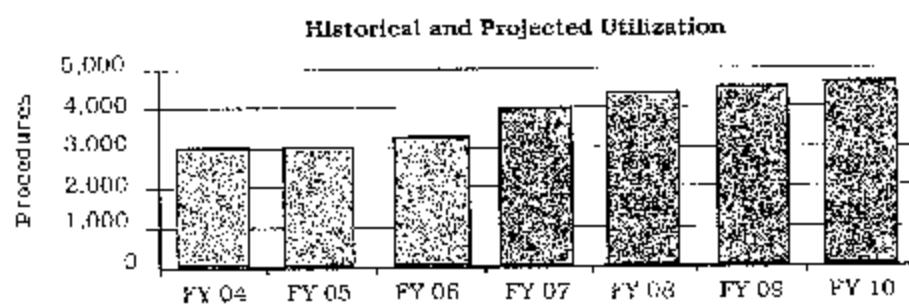
4. For additional units, document compliance with the optimal utilization standard, and if not achieved, provide documentation to justify the additional unit.

Not applicable.

5. For evolving technology address the following:

Not applicable.

St. John's Mercy Hospital - Washington



Divide IV: Financial Feasibility Review Criteria and Standards:

- 1. Document that sufficient financing is available by providing a letter from a financial institution or an auditor's statement indicating that sufficient funds are available.**

Please see attached letter from Donna K. Kloft, Assistant Vice President of Citizens Bank, which indicates that Applicant has sufficient funds to purchase this equipment.

- 2. Provide Service-Specific Revenues and Expenses (Form MO 580-1865) projected through three (3) years beyond project completion.**

See attached. The average charge/procedure was calculated by dividing the average annual revenue by the number of annual exams. Overhead expenses include advertising, property and liability insurance, rent, repair and maintenance, small equipment, and taxes. Overhead also includes office supplies, and phone and support staff expenses attributable to the MRI services. Overhead does not include supply and salary costs that are specific to the MRI department (such as MRI tech salaries), which are included under direct expenses.

- 3. Document how patient charges were derived.**

The fee schedule for MRI services is based on a percentage of Medicare rates.

- 4. Document responsiveness to the needs of the medically indigent.**

Applicant offers a discounted fee schedule for uninsured patients. Indigent patients may also apply to Applicant's Hardship Committee to be considered for debt forgiveness. The Hardship Committee examines patients' ability for debt forgiveness using poverty and family size guidelines. Thus far in 2009, Applicant has extended a discounted rate to more than 3000 patients for more than 9,600 services. These discounts total \$660,000. Also thus far in 2009, Applicant has forgiven the debt of 277 patients. This debt forgiveness represents more than 1,300 services and totals \$54,000.



CITIZENS BANK

P.O. BOX 197
100 CIRCLE DRIVE
NEW HAVEN, MO 65068

PHONE: 573-237-3051
FAX: 573-237-3057

LOCATIONS:

Gerald

P.O. BOX 46
725 West Springfield
Gerald, MO 63037
Phone: 573-761-3051
Fax: 573-764-4209

October 15, 2009

Pacific

2235 West Osage
Pacific, MO 63069
Phone: 636-271-3951
Fax: 636-271-9162

Patients First Health care, LLC

Joe Gubbel's, CEO
901 Patients First Drive
Washington, MO 63090

Washington

1451 High Street
Suite 101
Washington, MO
63090
Phone: 636-390-9944
Fax: 636-390-9555

Dear Mr. Gubbel's:

This letter is to provide the affirmation you need to support your Certificate of Need application for purchase of an MRI Magnetom Espree system.

I hereby attest that Patients First Health Care, LLC has maintained a deposit account balance in their operating account sufficient to cover the cost of the above referenced equipment.

Sincerely,

Donna K. Kloit
Assistant Vice President

DKK:dkk



Certificate of Need Program

SERVICE-SPECIFIC REVENUES AND EXPENSES**Historical Financial Data for Latest Three Years plus Projections Through Three Years Beyond Project Completion**

Please attach individual form for each affected service with a sufficient number of copies of this form to cover entire period and fill in the years in the appropriate blanks.

	Year		
	2010	2011	2012
Amount of Utilization:*	4,046	4,134	4,145
Revenue:			
Average Charge**	\$815	\$815	\$825
Gross Revenue	<u>\$3,297,490</u>	<u>\$3,369,210</u>	<u>\$3,419,625</u>
Revenue Deductions	<u>1,022,297</u>	<u>1,044,532</u>	<u>1,060,147</u>
Operating Revenue	<u>2,275,193</u>	<u>2,324,678</u>	<u>2,359,478</u>
Other Revenue	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL REVENUE	<u>\$2,275,193</u>	<u>\$2,324,678</u>	<u>\$2,359,478</u>
Expenses:			
Direct Expense			
Salaries	269,109	282,879	297,023
Fees	298,620	308,414	317,320
Supplies	81,095	85,149	89,407
Other	113,655	119,338	125,305
TOTAL DIRECT	<u>\$762,778</u>	<u>\$795,781</u>	<u>\$829,056</u>
Indirect Expense			
Depreciation	190,565	190,565	190,565
Interest***	75,736	65,985	55,631
Overhead****	266,296	279,611	293,591
TOTAL INDIRECT	<u>\$532,598</u>	<u>\$536,161</u>	<u>\$539,788</u>
TOTAL EXPENSE	<u>\$1,295,176</u>	<u>\$1,331,941</u>	<u>\$1,368,843</u>
NET INCOME (LOSS):	<u>\$979,817</u>	<u>\$992,737</u>	<u>\$990,635</u>

* Utilization will be measured in "patient days" for licensed beds, "procedures" for equipment, or other appropriate units of measure specific to the service affected.

** Indicate how the average charge/procedure was calculated.

*** Only on long term debt, not construction.

**** Indicate how overhead was calculated.